

Fig. 1A

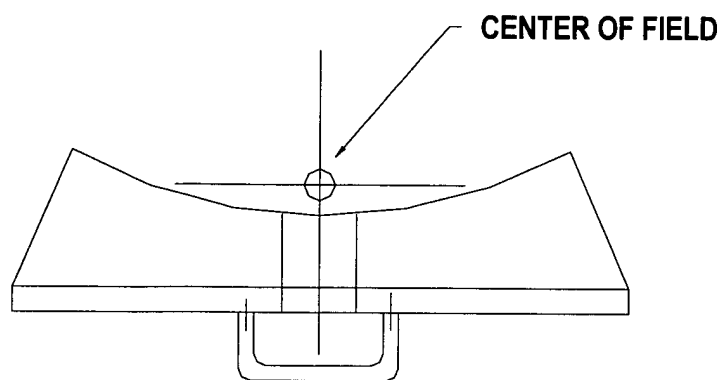


Fig. 1B

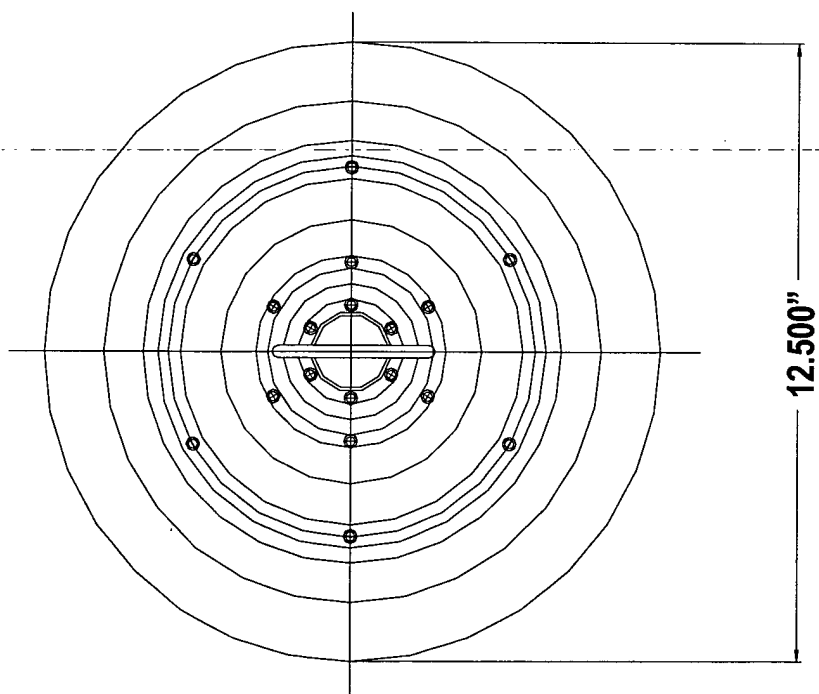


Fig. 1C

Fig. 2

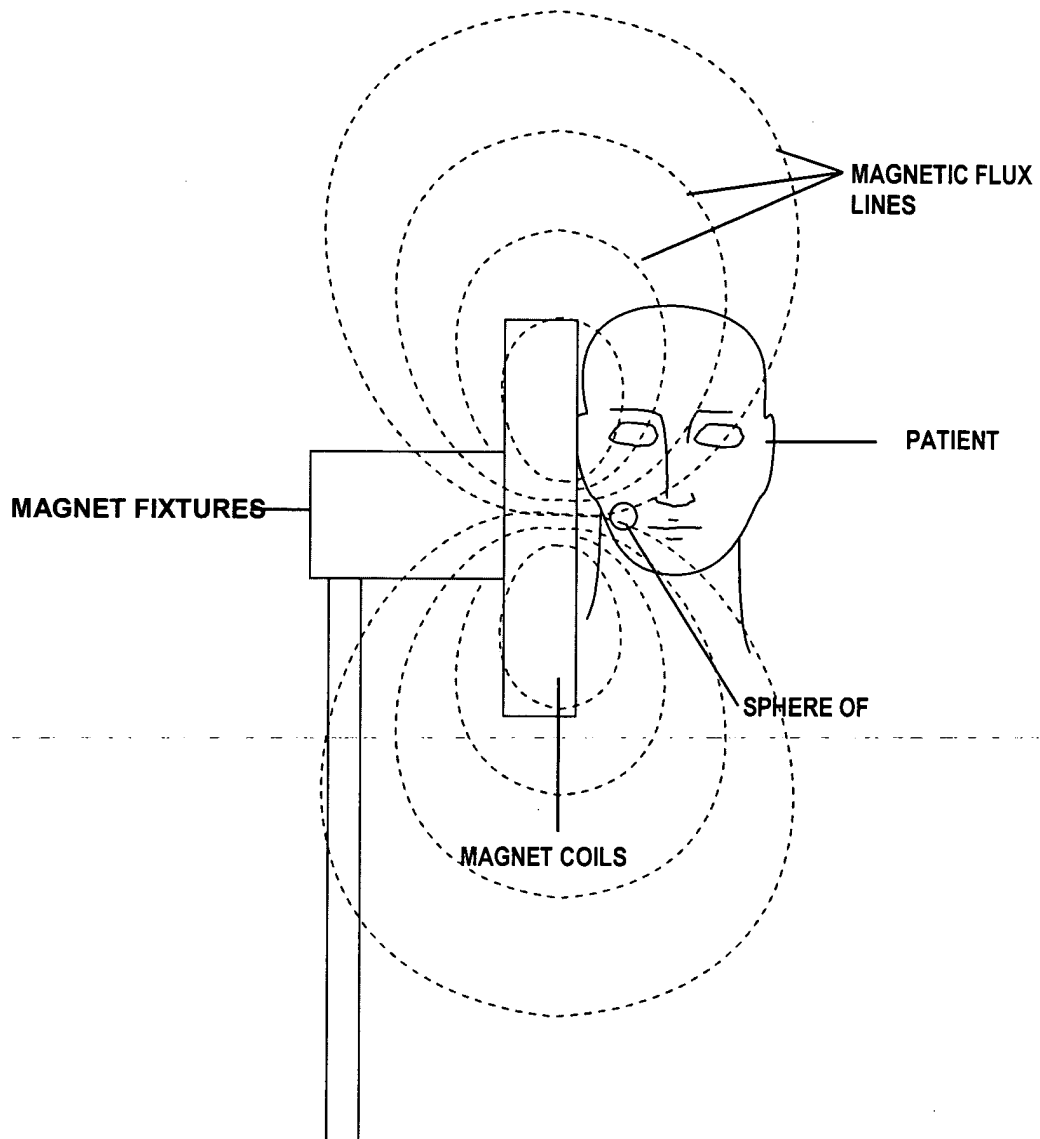




Fig. 3A

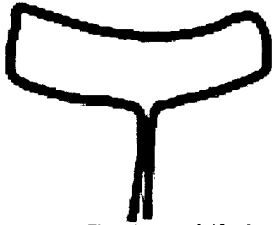


Fig. 3B

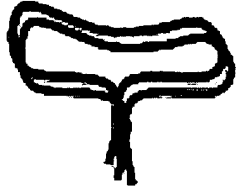


Fig. 3C

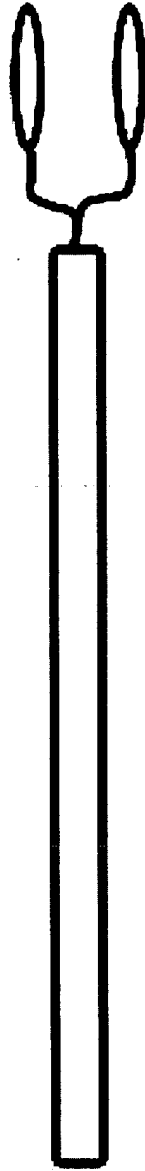


Fig. 3D

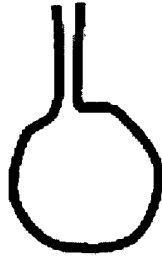
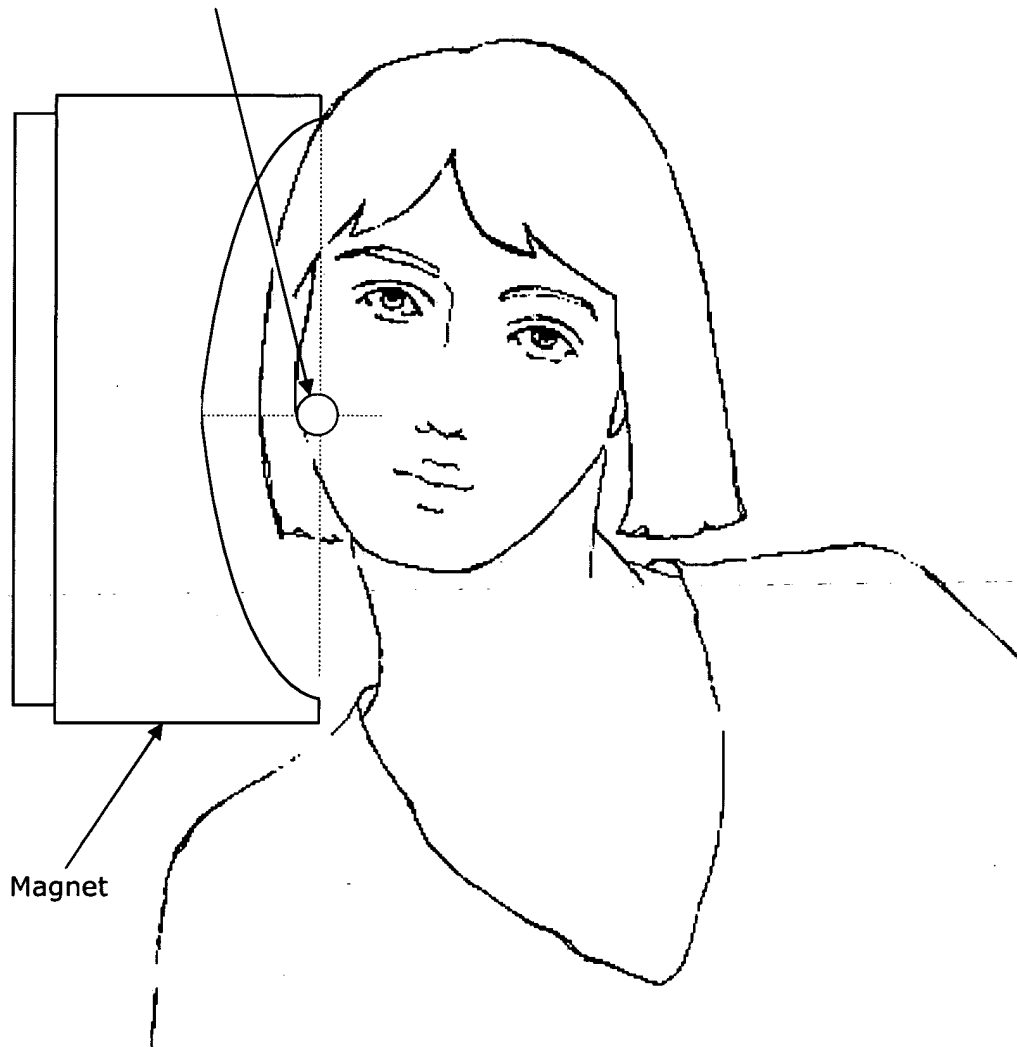


Fig. 3E

Fig. 4

Region of homogeneous magnetic field



Patient, positioned data acquisition

Fig. 5A

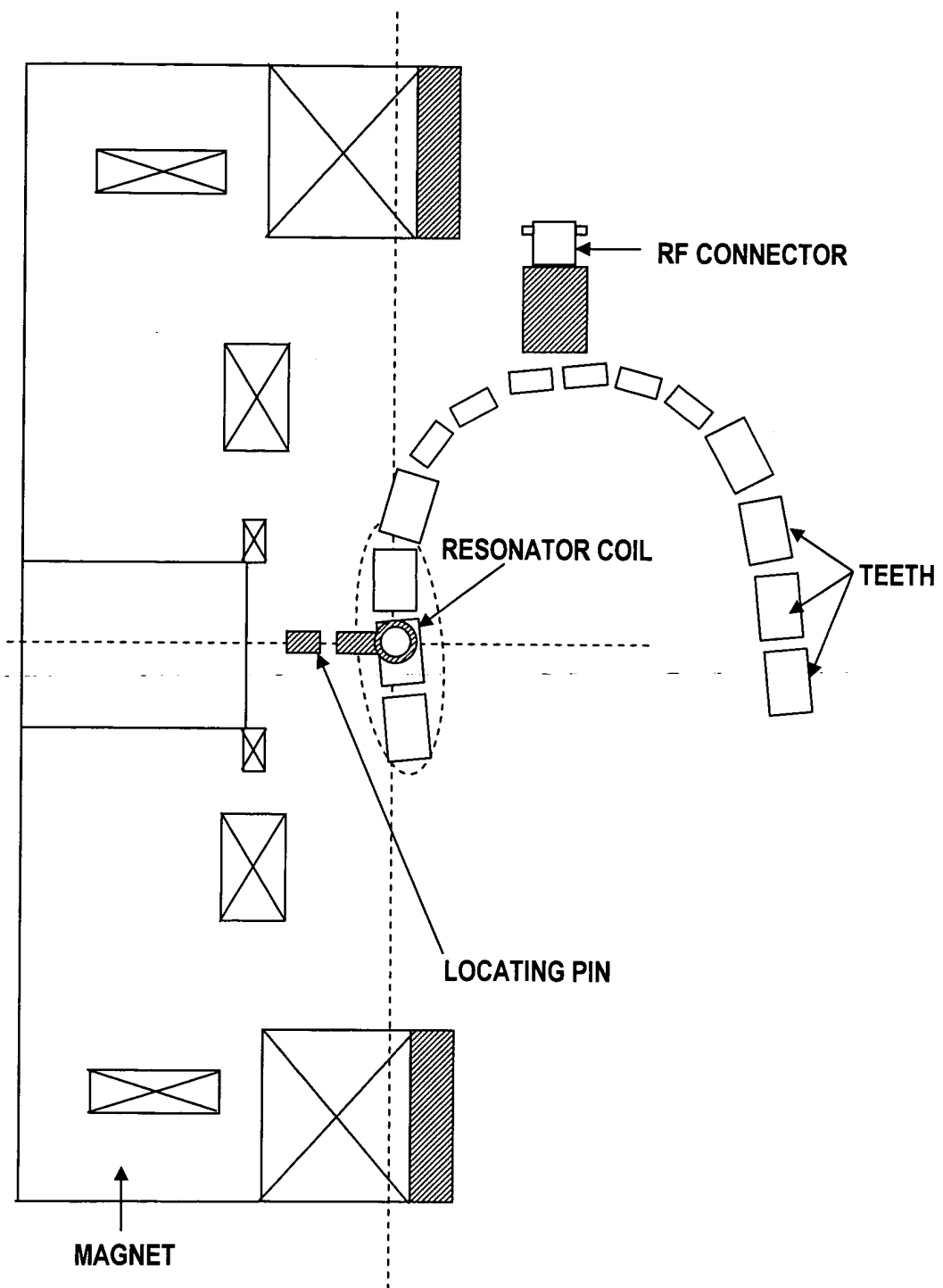
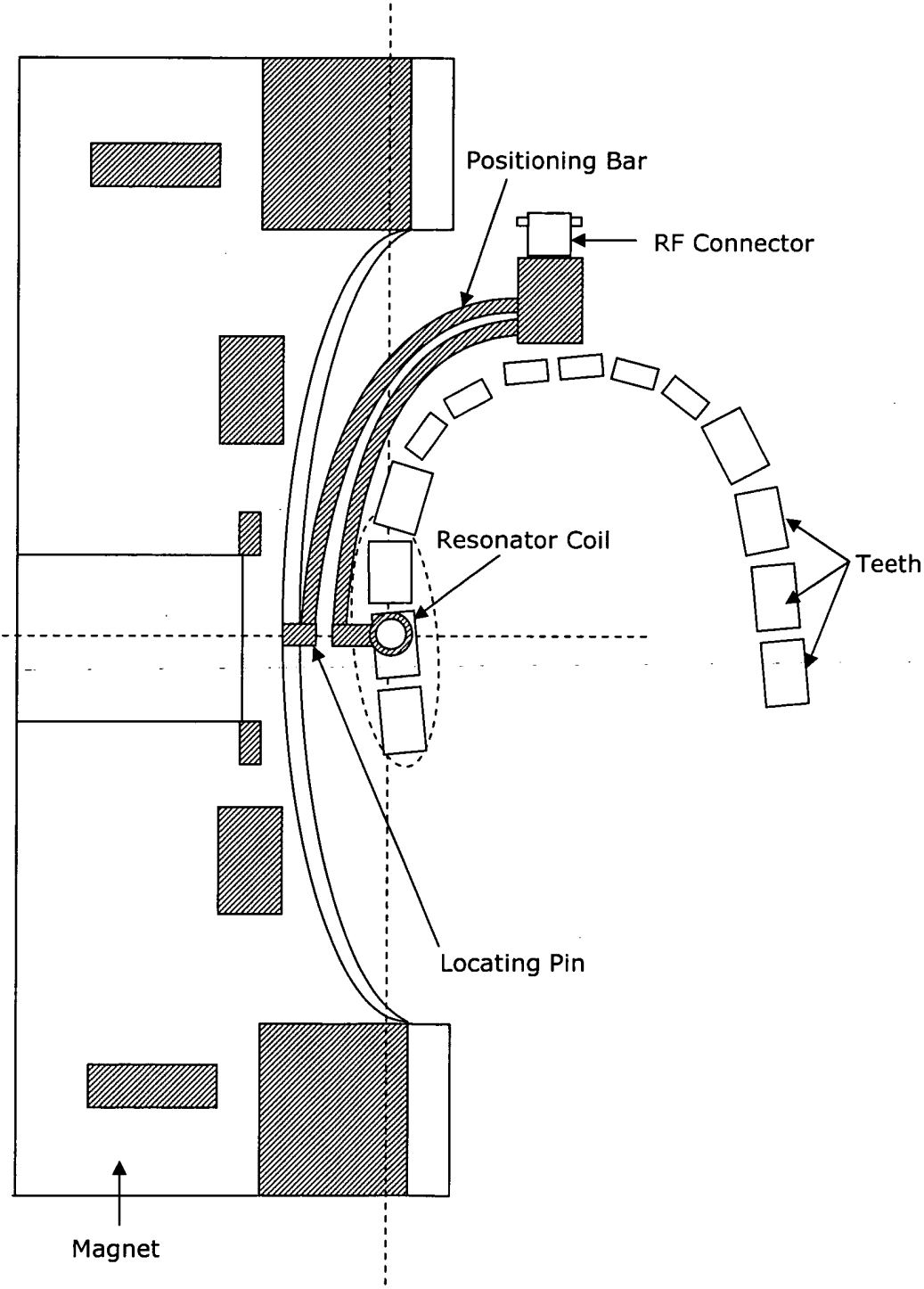


Fig. 5B



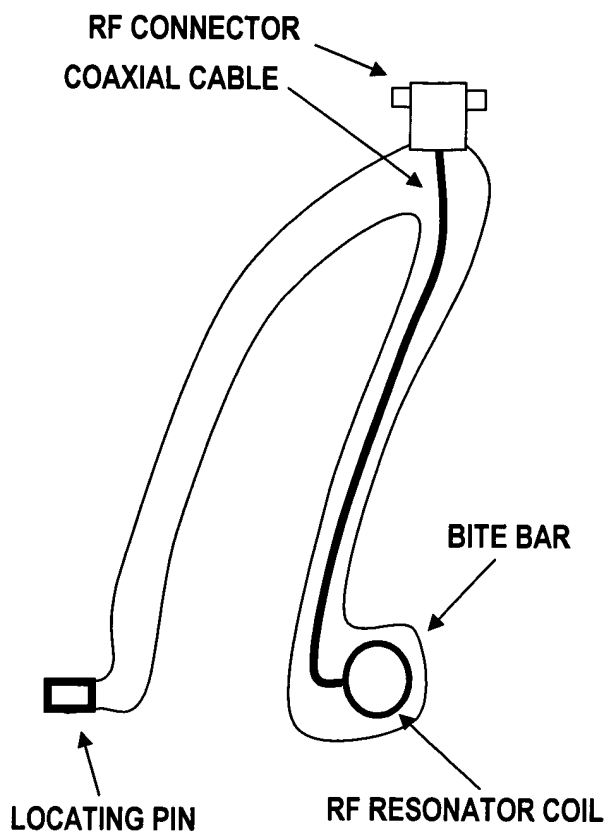


Fig. 6A



Fig. 6B

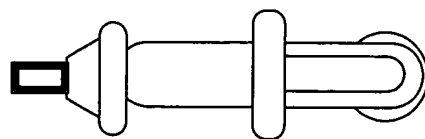


Fig. 6C

Fig. 7A

SPECTRA FROM LOW DOSE IRRADIATION OF TEETH

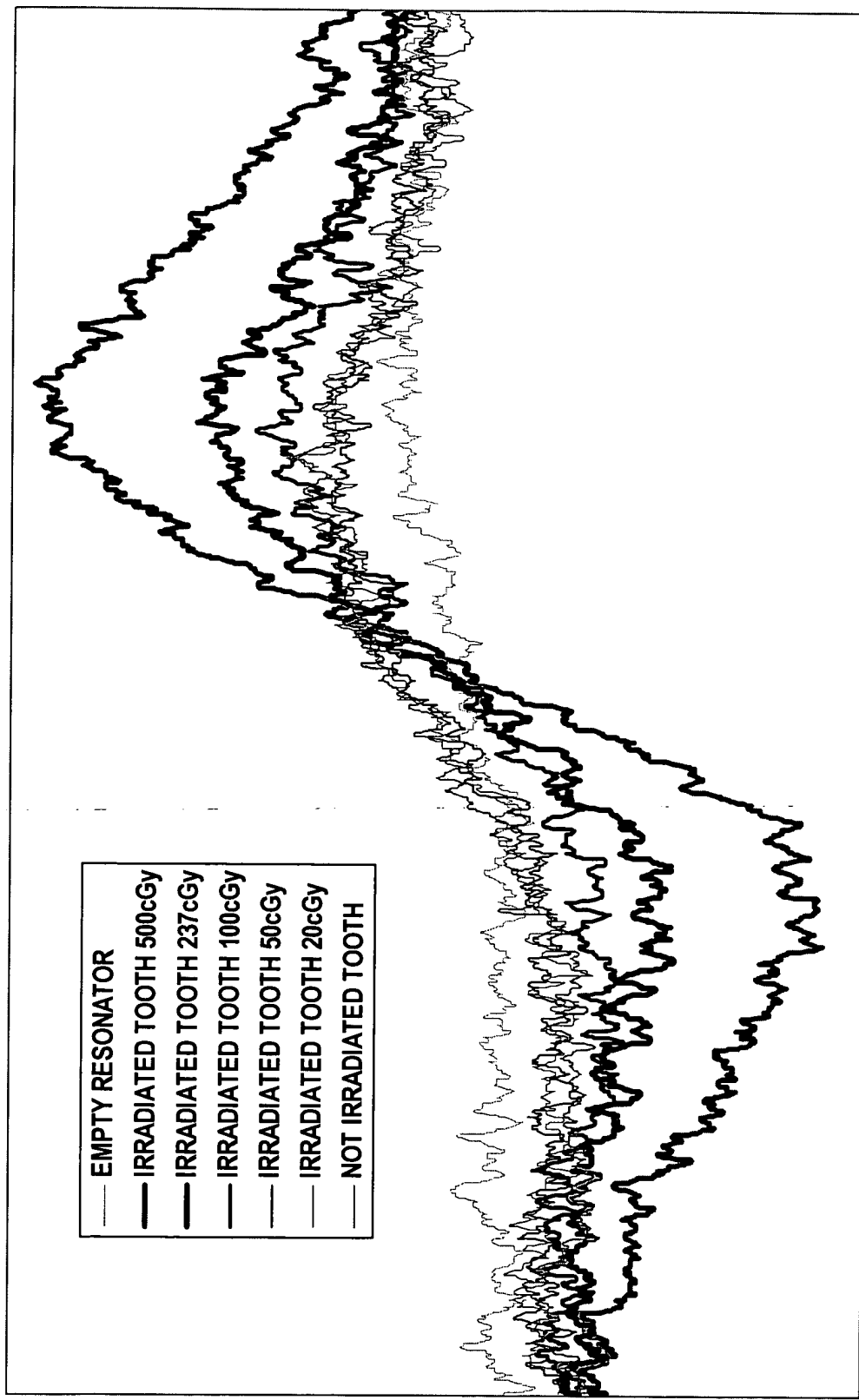


Fig. 7B

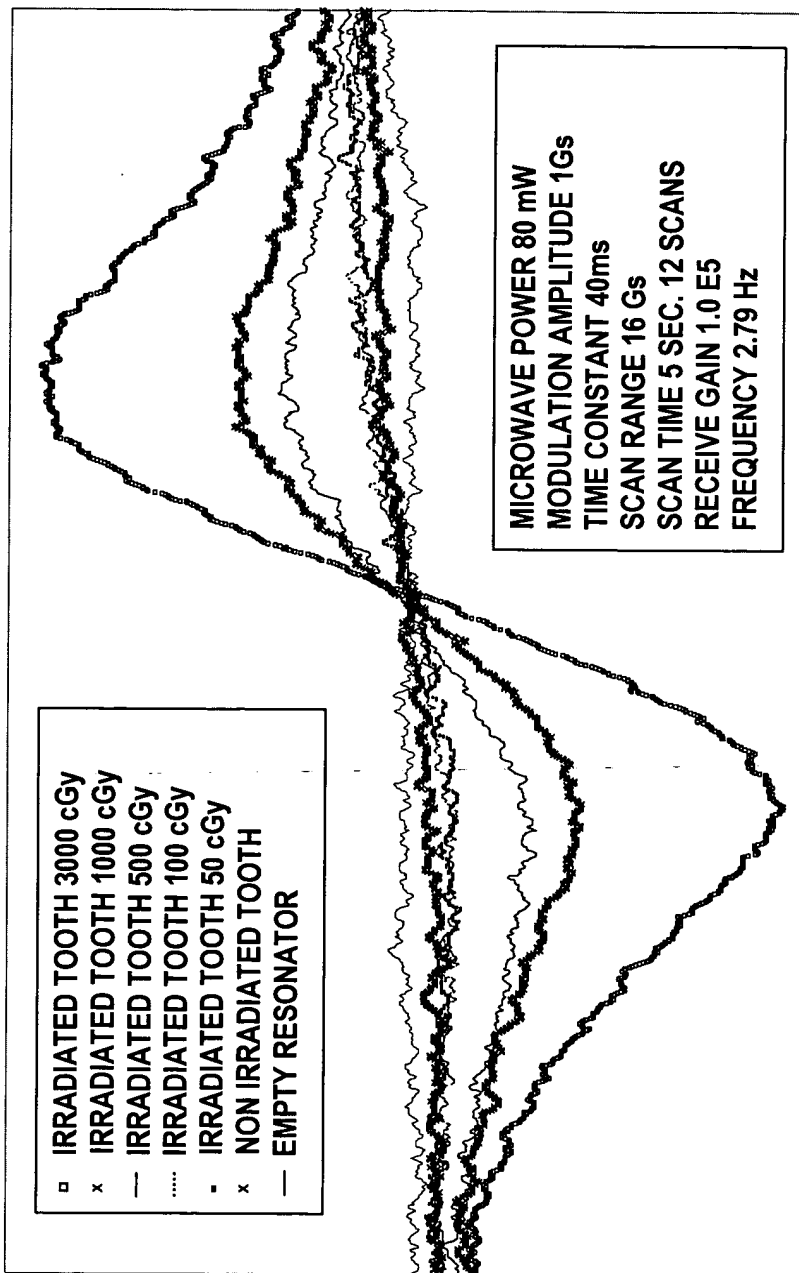
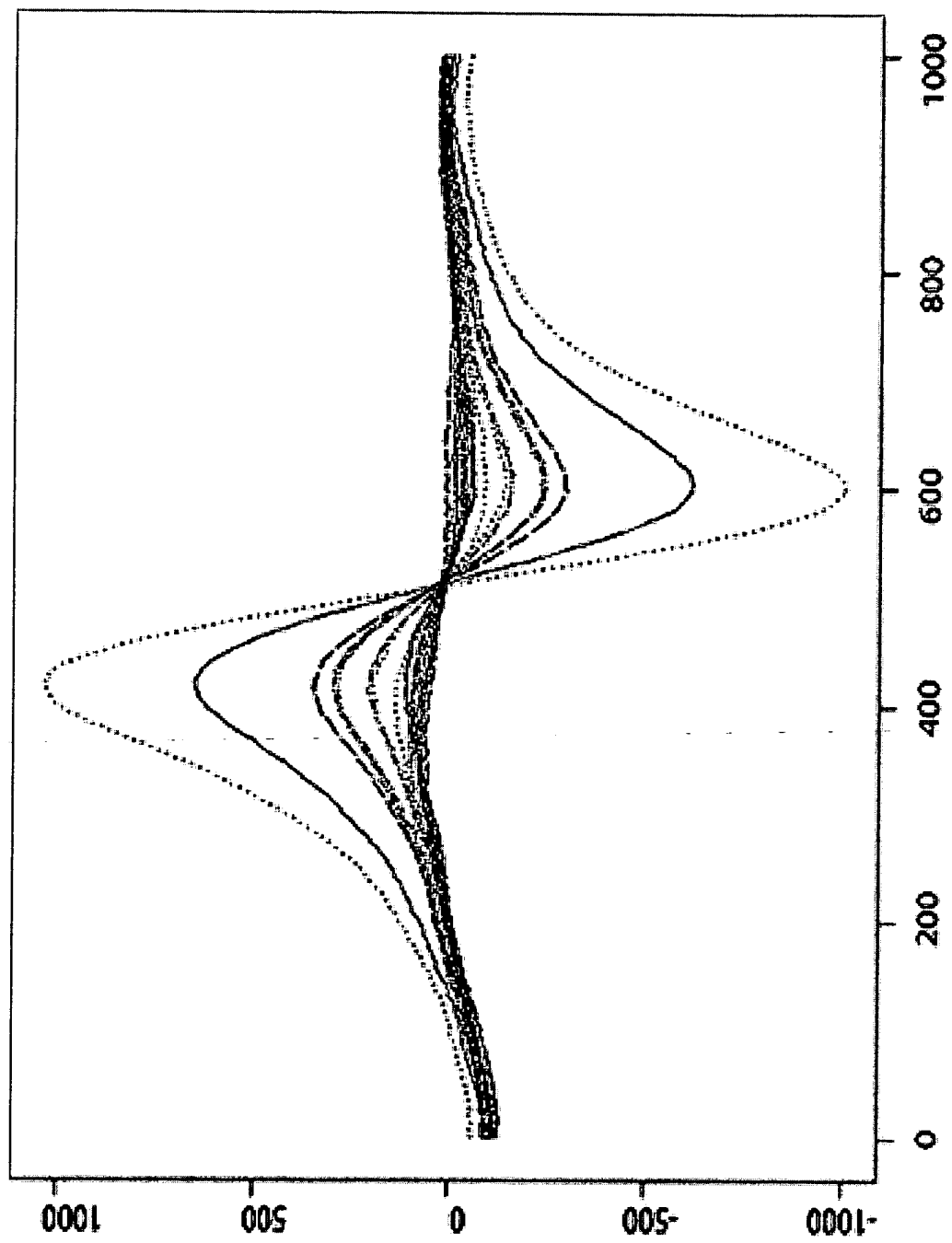


Fig. 8



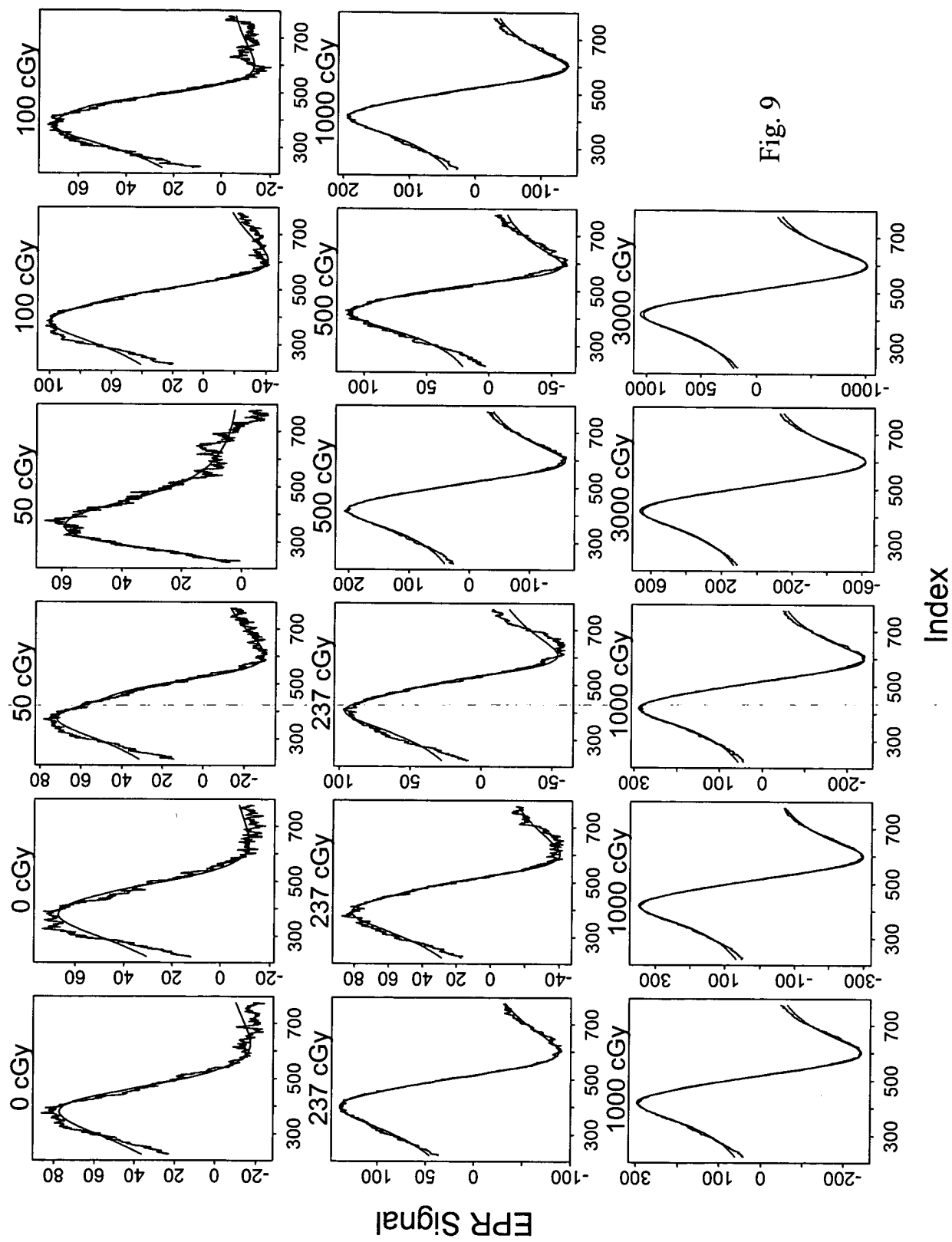


Fig. 9

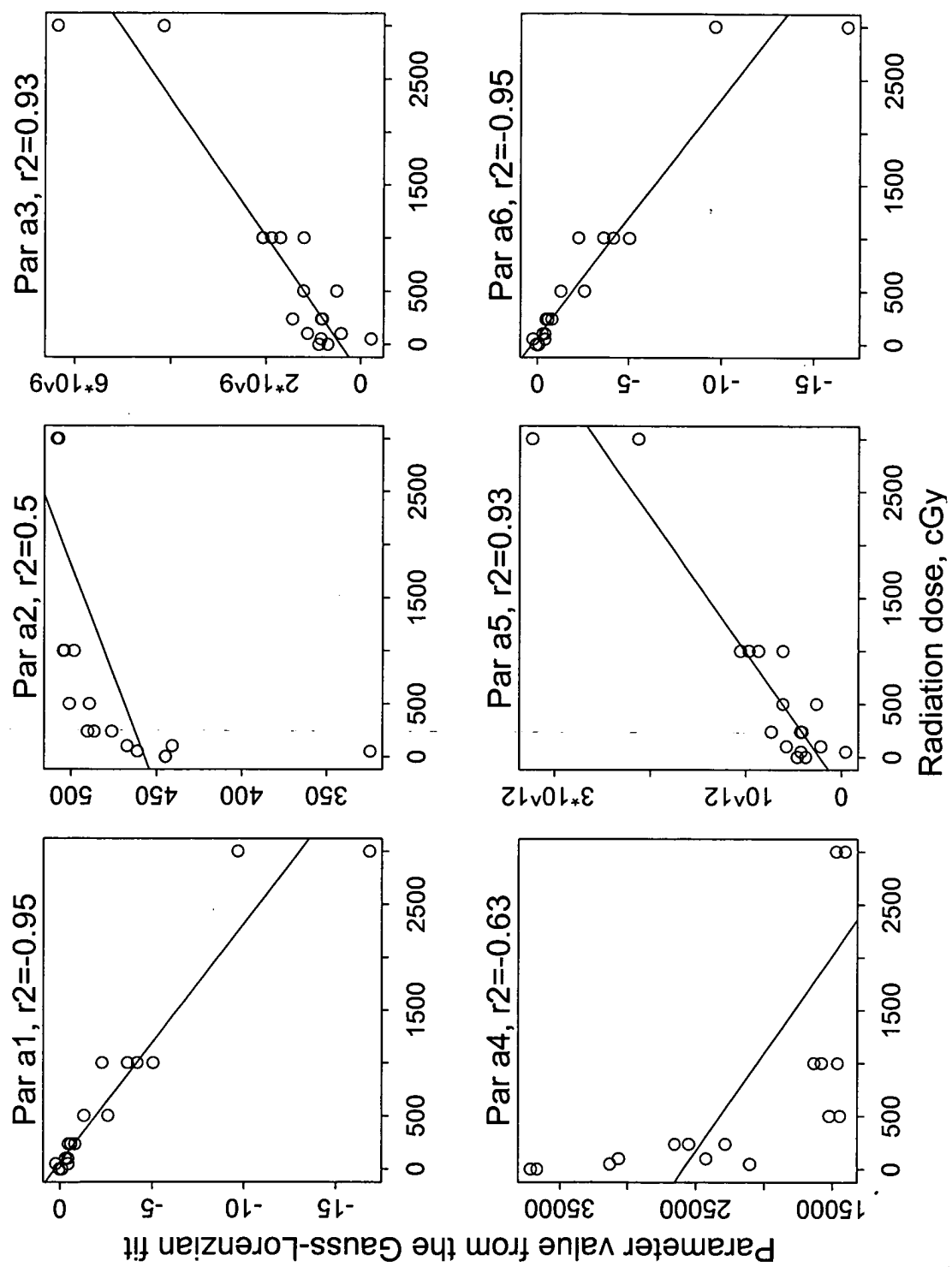


Fig. 10

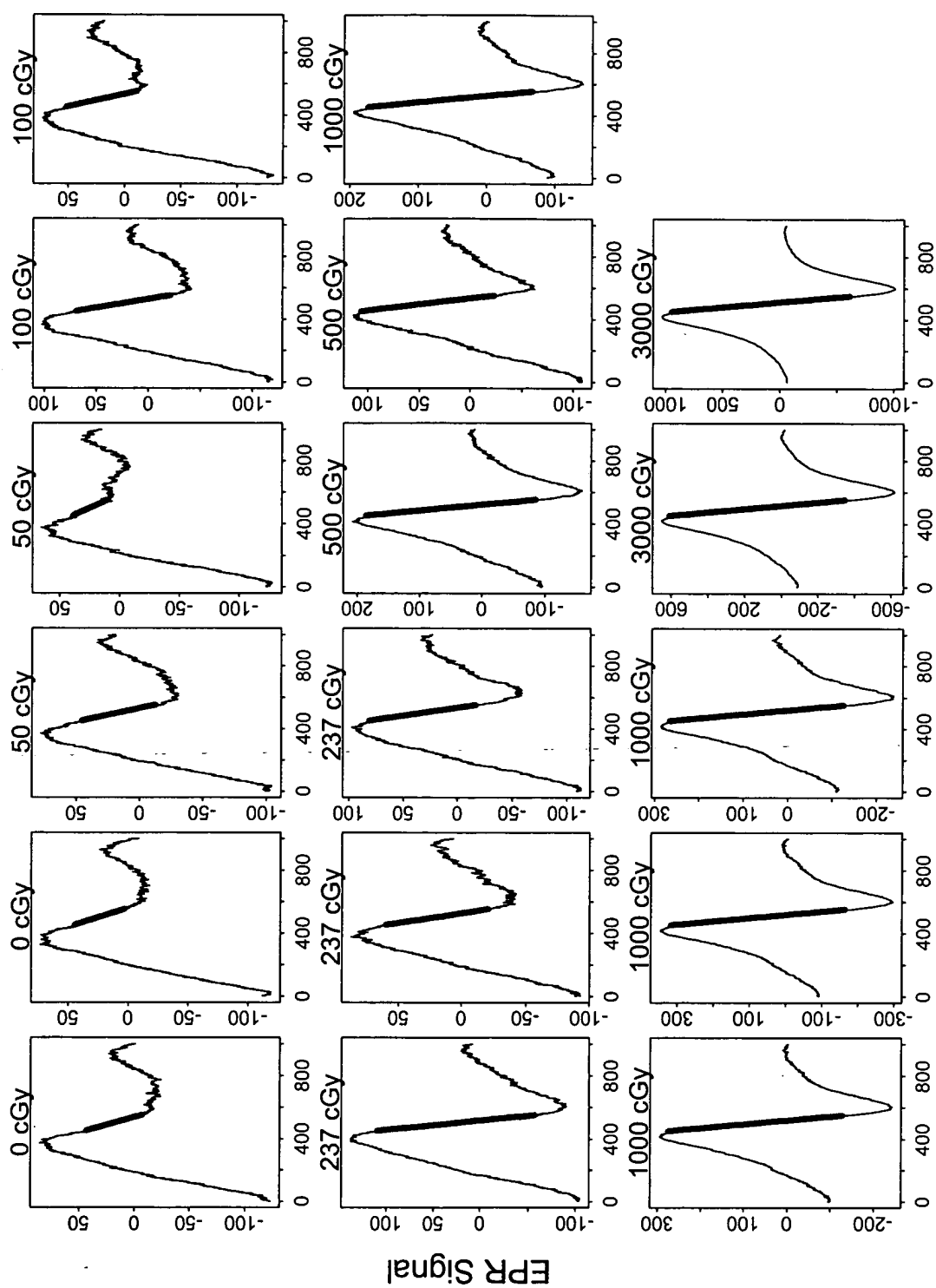


Fig. 11

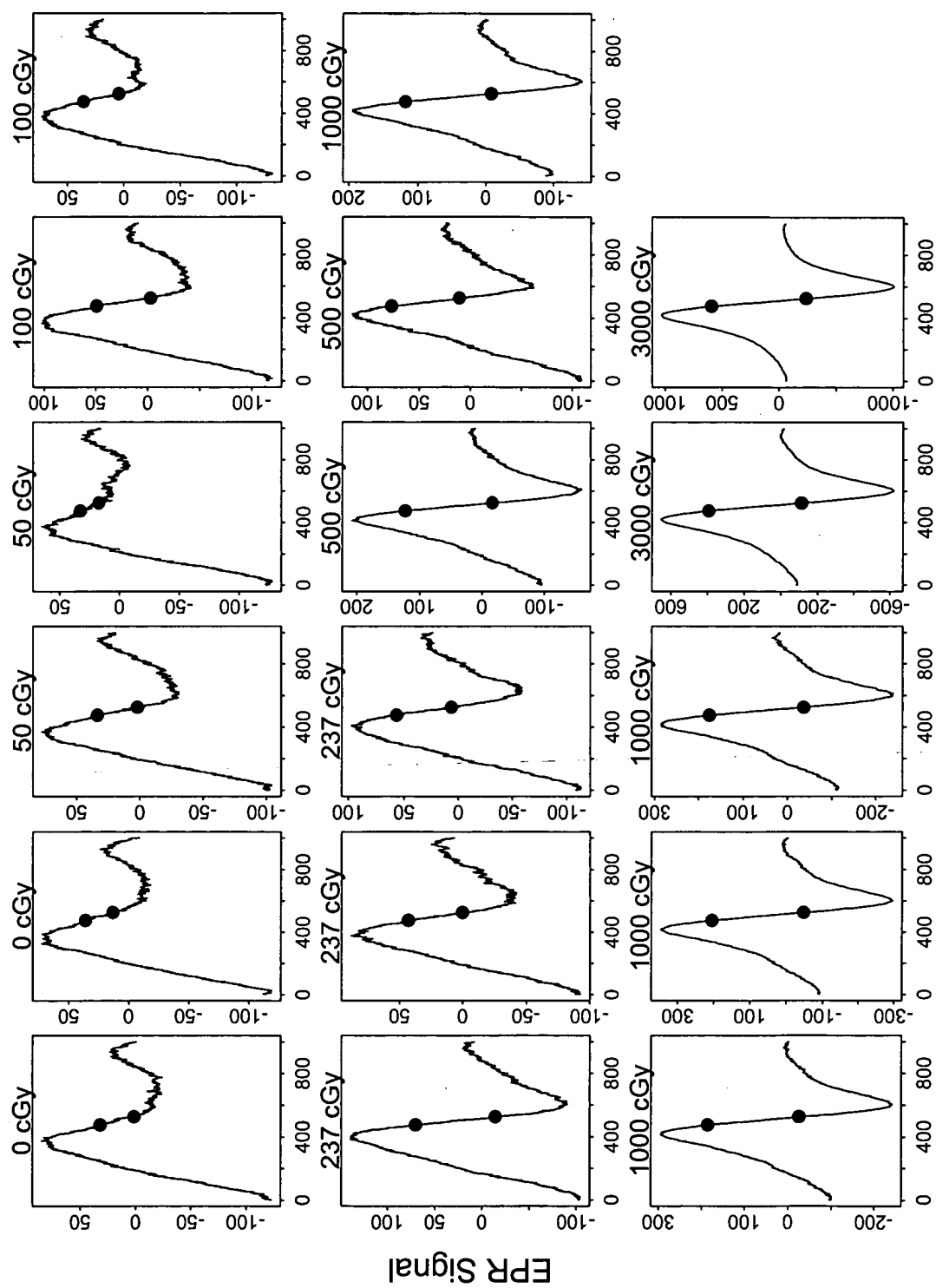


Fig. 12

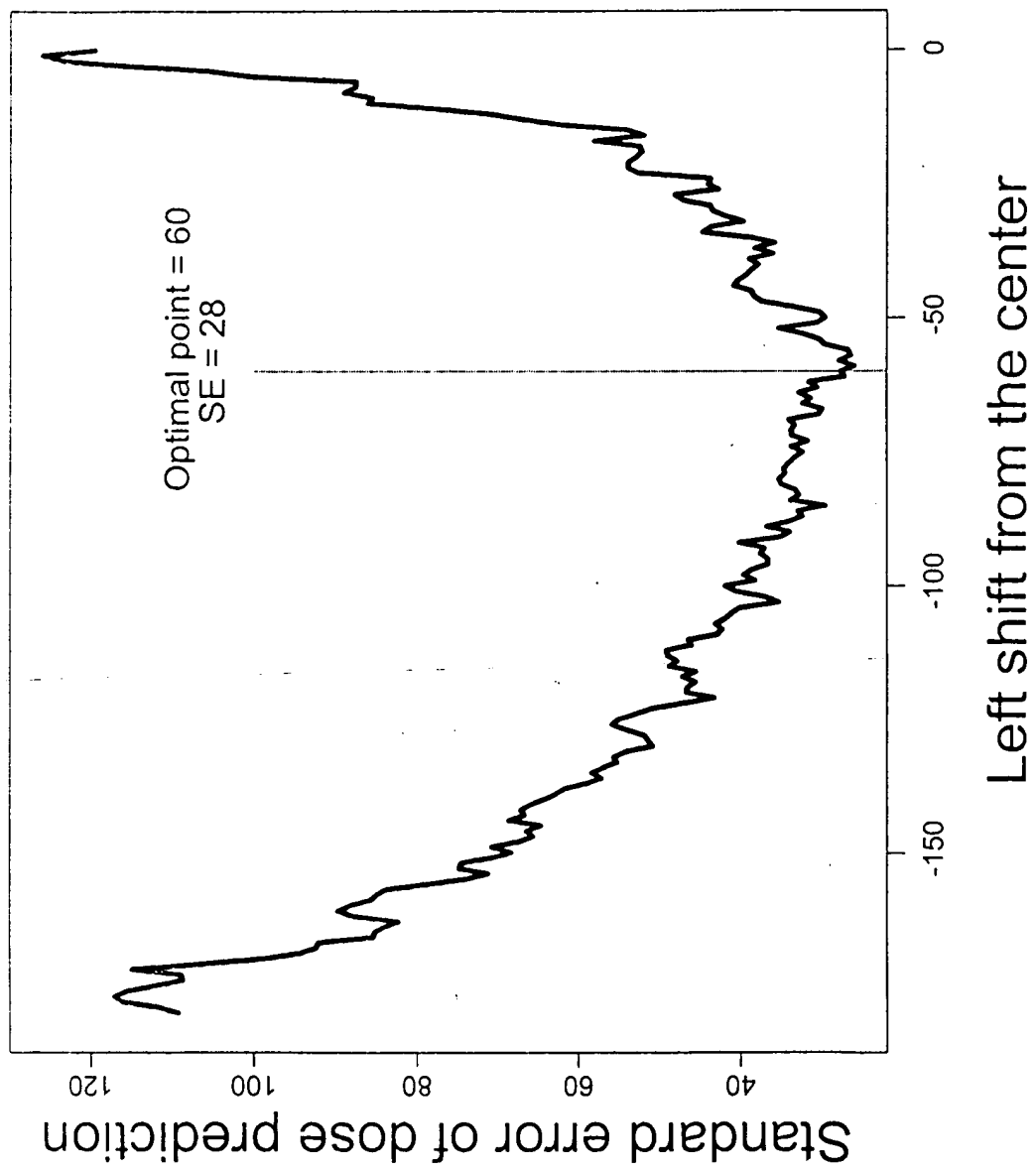


Fig. 13

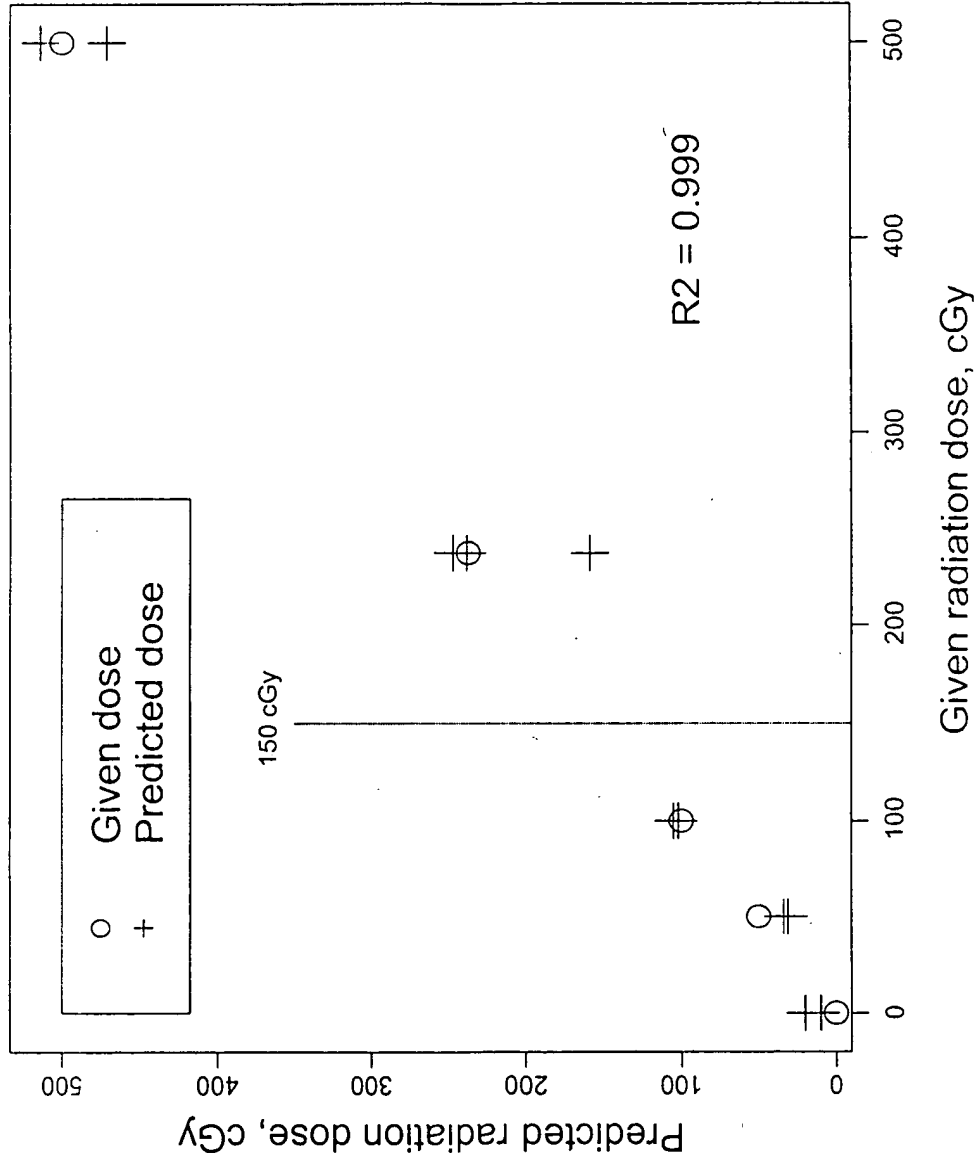


Fig. 14



Fig. 15A



Fig. 15C

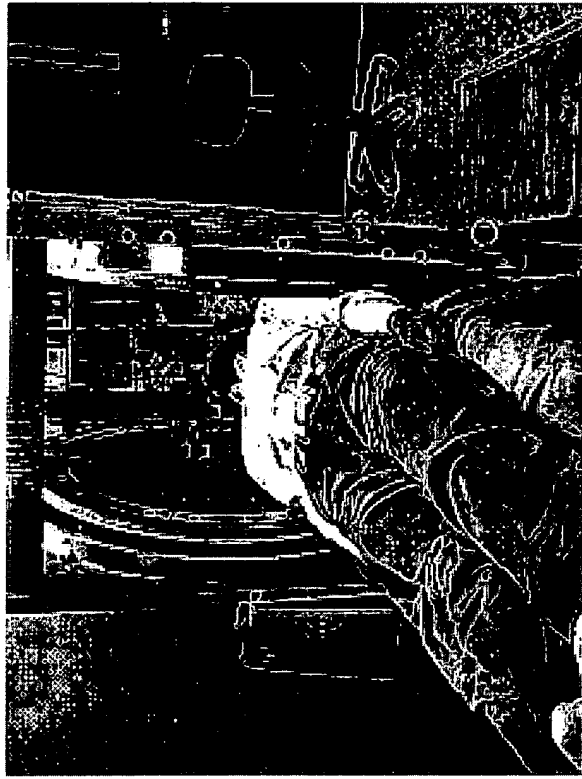


Fig. 15B

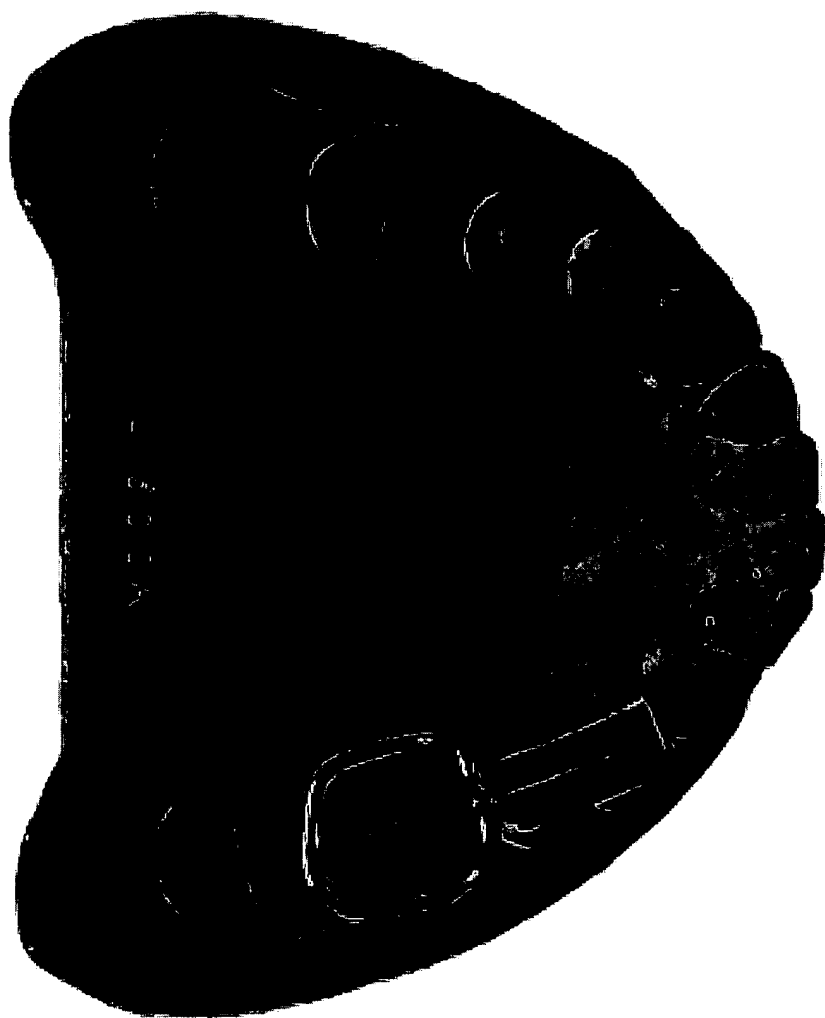
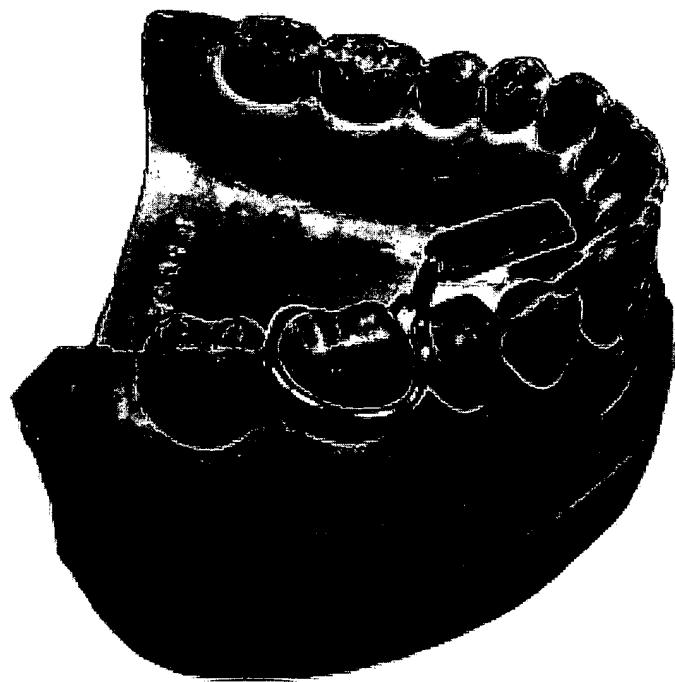


Fig. 16A

Fig. 16B



Fig.16C



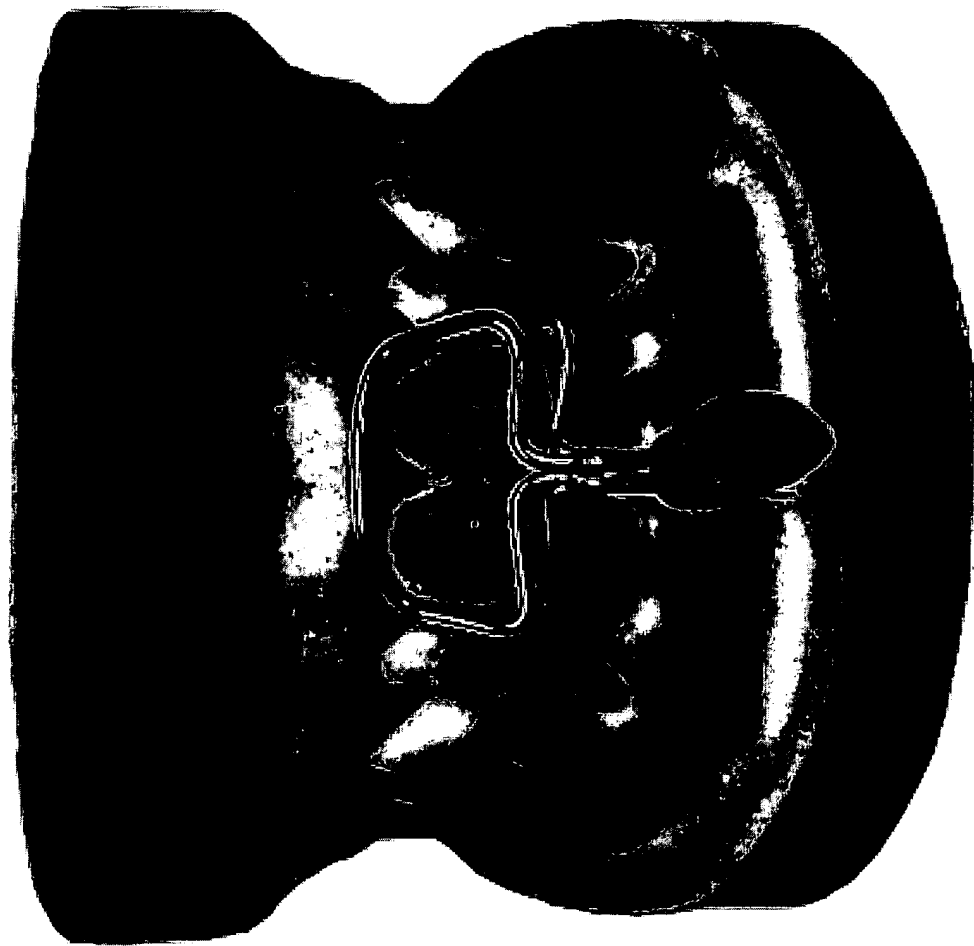


Fig. 17A

Fig. 17B

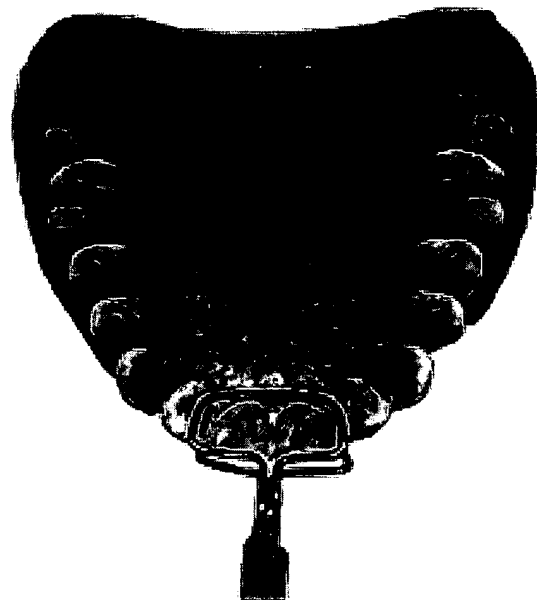
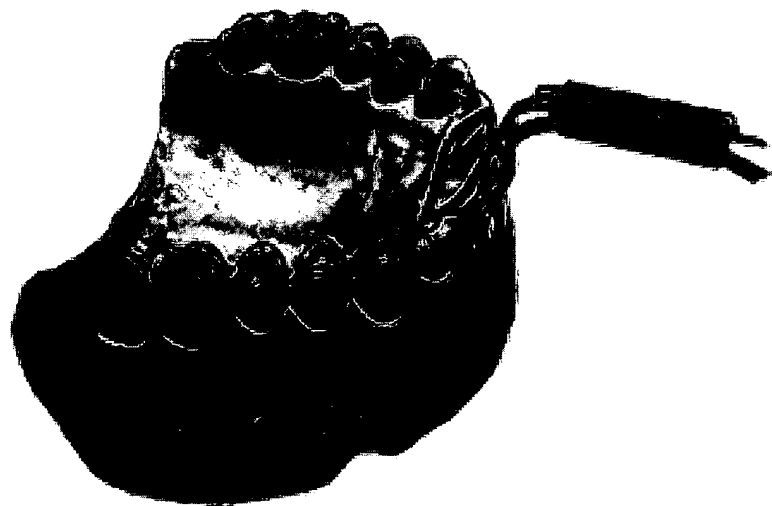


Fig.17C



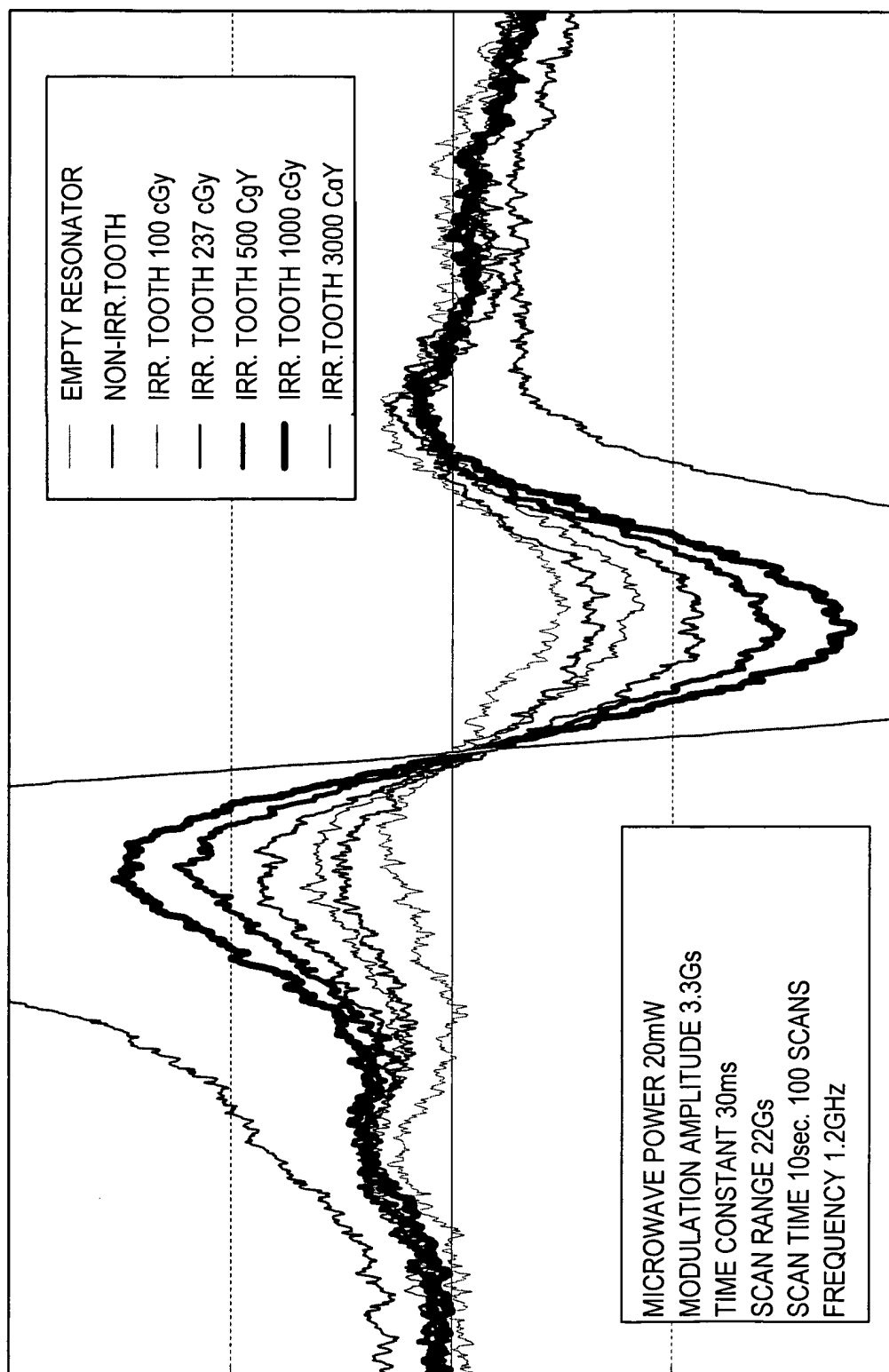


Fig. 18

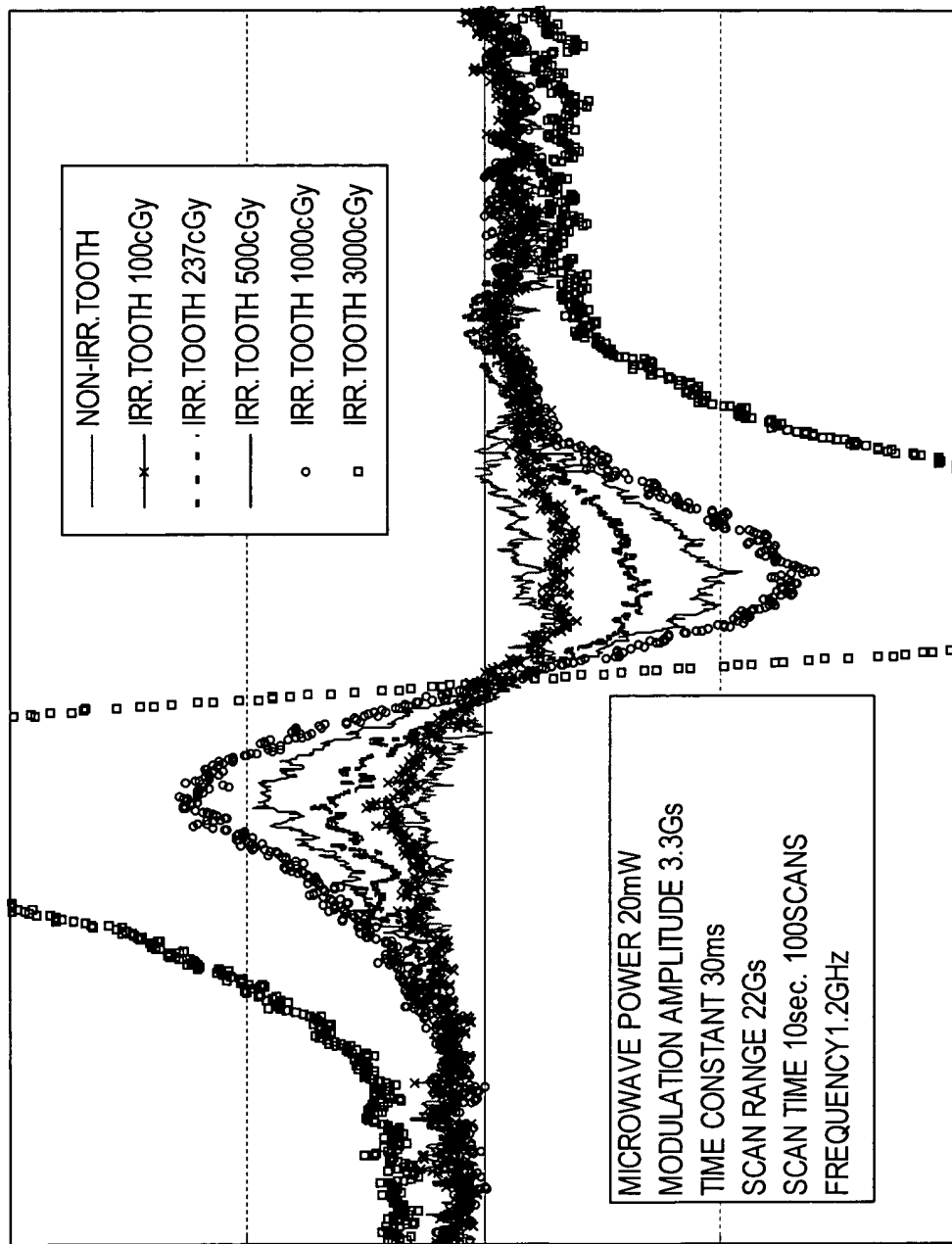


Fig. 19

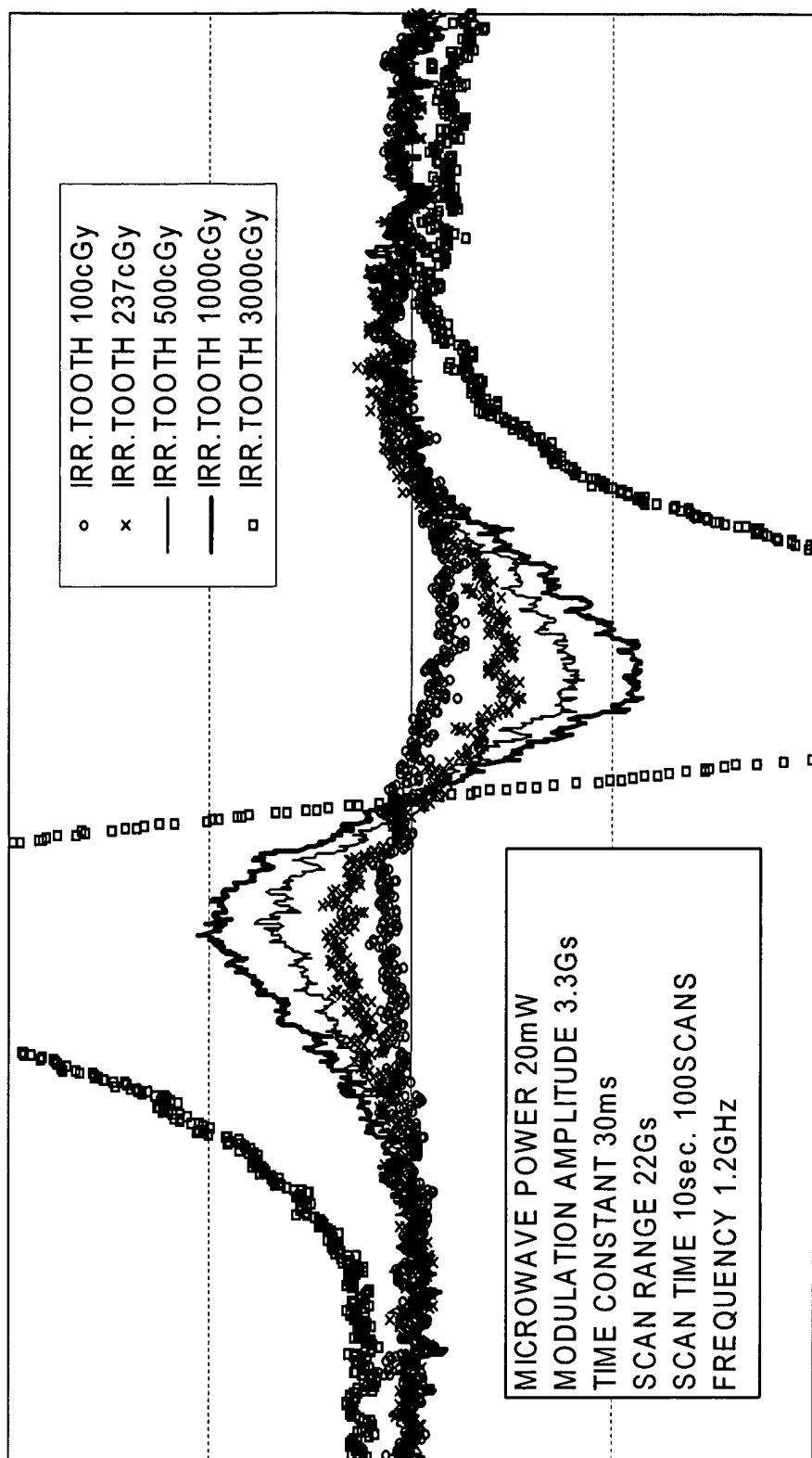


Fig. 20

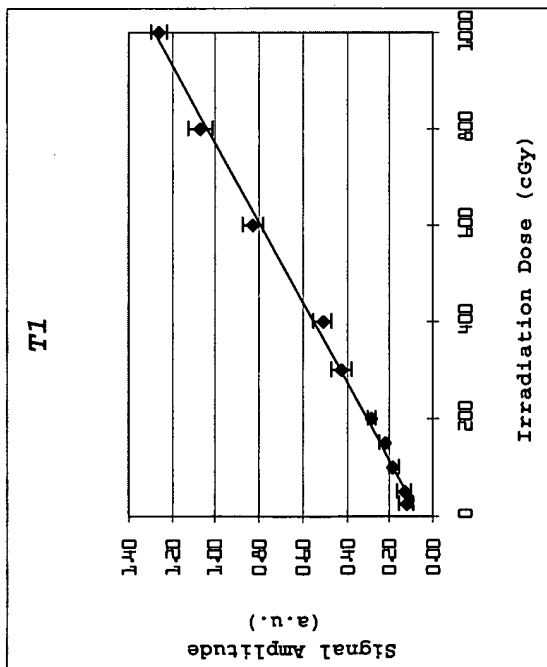


Fig. 21A

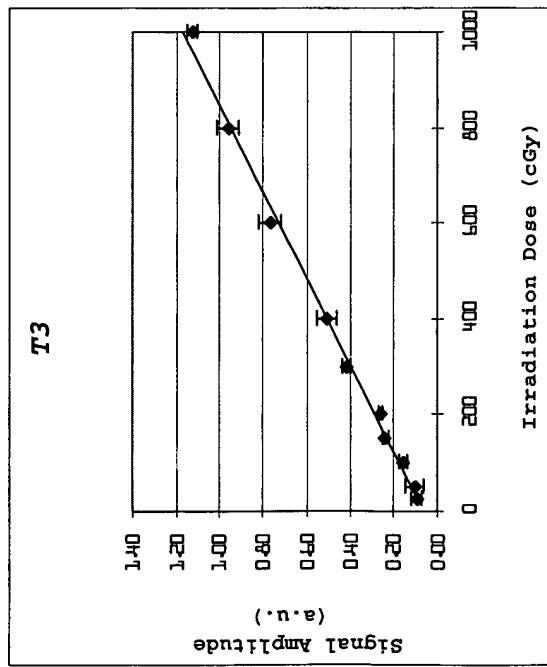


Fig. 21C

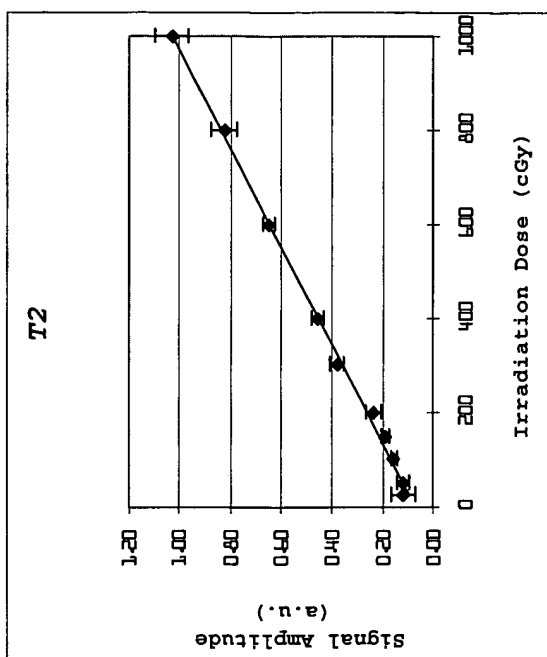


Fig. 21B

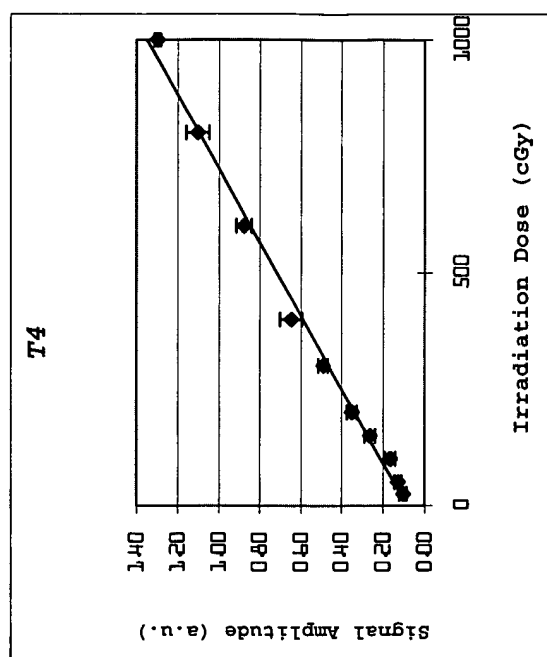


Fig. 21D

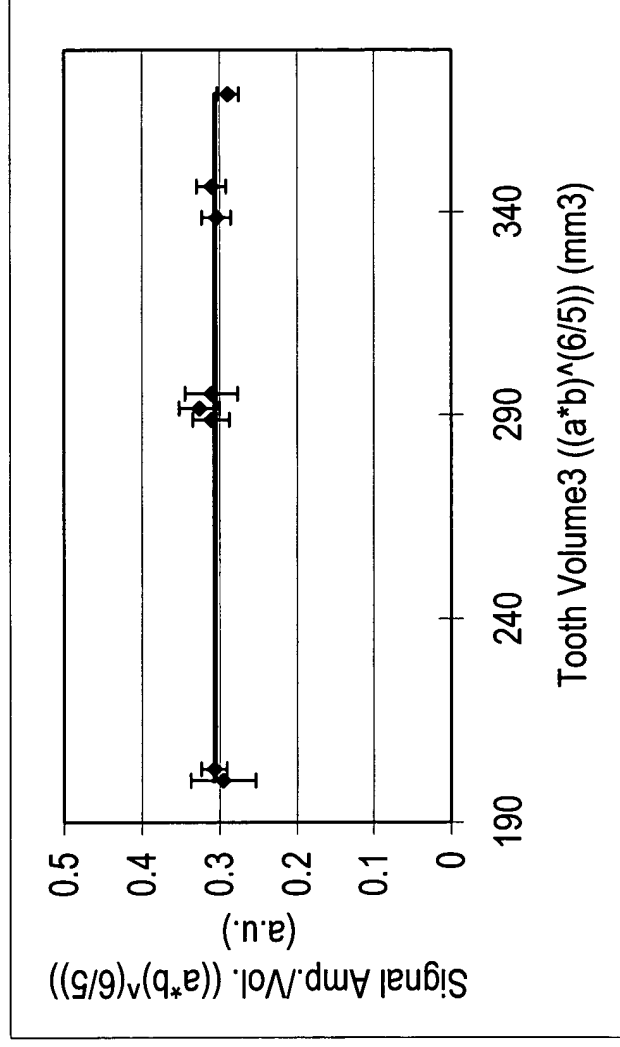


Fig. 22

Figure 1 is a line graph showing the T1 relaxation time (in seconds) versus time after irradiation (in days) for various doses of ^{60}Co gamma-rays. The x-axis represents "TIME AFTER IRRADIATION (DAYS)" from 0 to 5. The y-axis represents "T1 (SEC)" from 0.00 to 1.40. The legend indicates doses of 25, 50, 100, 150, 200, 300, 400, 600, 800, and 1000 cGy. The graph shows that T1 relaxation time generally increases with dose and remains relatively stable over time after irradiation.

Dose (cGy)	0 Days	1 Day	2 Days	4 Days	5 Days
25	0.53	0.45	0.54	0.43	0.37
50	0.38	0.25	0.28	0.20	0.25
100	0.35	0.22	0.25	0.18	0.22
150	0.32	0.20	0.22	0.15	0.20
200	0.28	0.18	0.20	0.12	0.18
300	0.25	0.15	0.18	0.10	0.15
400	0.22	0.12	0.15	0.08	0.12
600	0.18	0.10	0.12	0.05	0.10
800	0.15	0.08	0.10	0.03	0.08
1000	0.12	0.05	0.08	0.02	0.05

T2

Y-axis: SIGNAL AMPLITUDE(a.u.)

X-axis: TIME AFTER IRRADIATION (DAYS)

Legend (Dose in cGy):

- 25
- 50
- 100
- 150
- 200
- 300
- 400
- 600
- 800
- 1000

Dose (cGy)	0 Days	1 Day	2 Days	4 Days	5 Days
25	0.22	0.15	0.12	0.18	0.18
50	0.15	0.15	0.12	0.18	0.18
100	0.12	0.15	0.12	0.18	0.18
150	0.10	0.15	0.12	0.18	0.18
200	0.08	0.15	0.12	0.18	0.18
300	0.05	0.15	0.12	0.18	0.18
400	0.05	0.15	0.12	0.18	0.18
600	0.05	0.15	0.12	0.18	0.18
800	0.05	0.15	0.12	0.18	0.18
1000	0.05	0.15	0.12	0.18	0.18

Fig. 23C

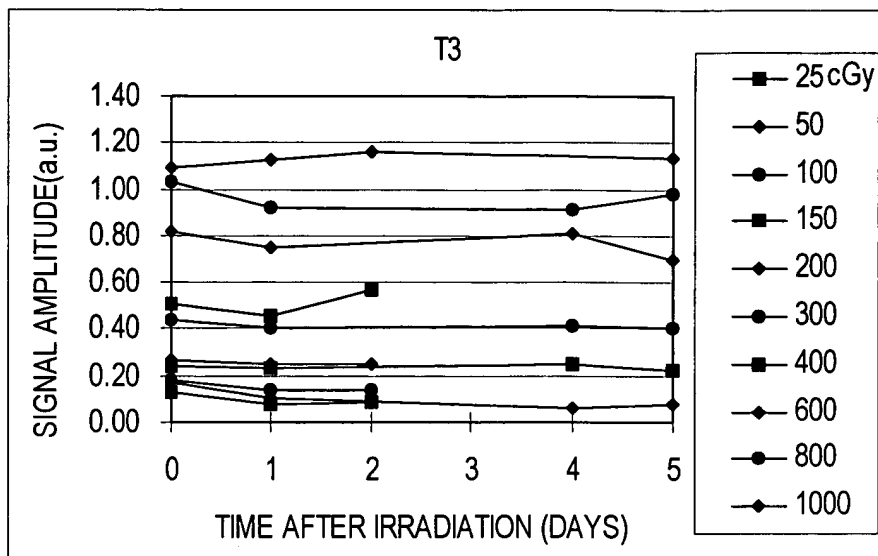


Fig. 23D

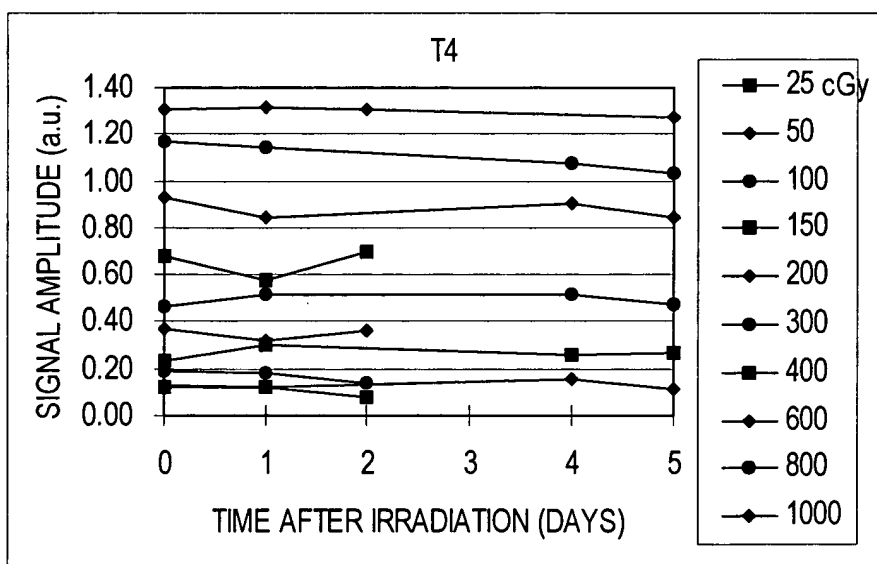


Fig. 24A

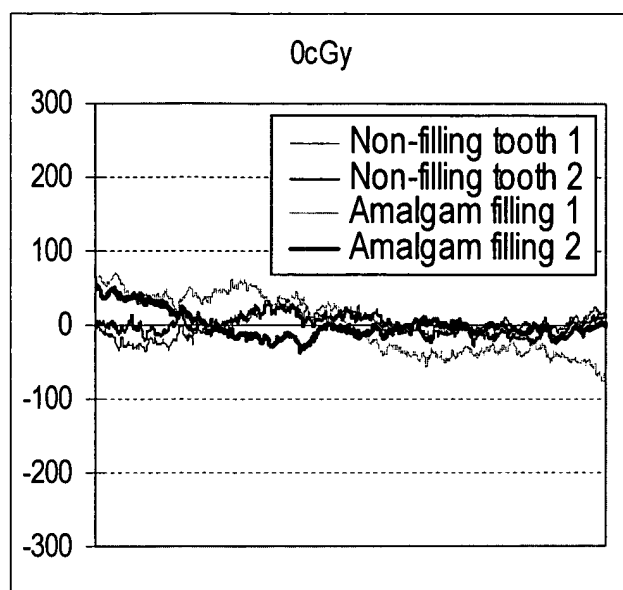


Fig. 24B

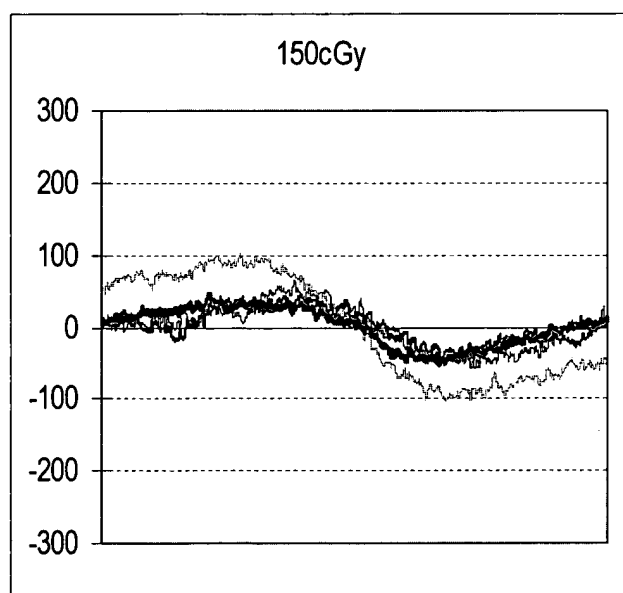


Fig. 24C

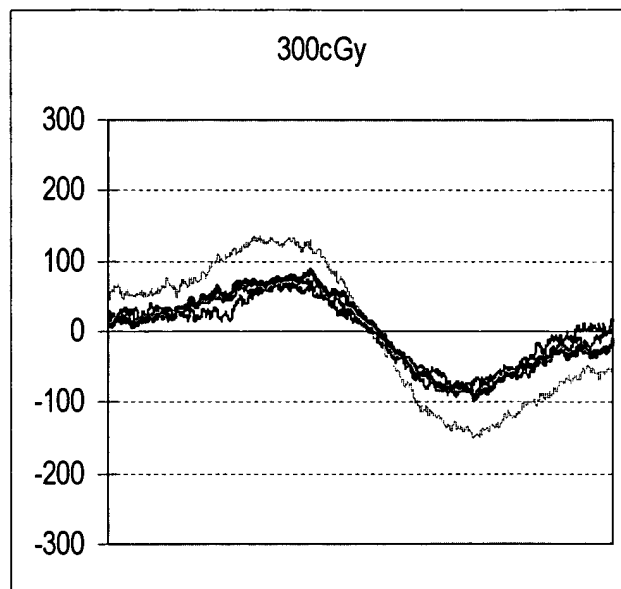


Fig. 24D

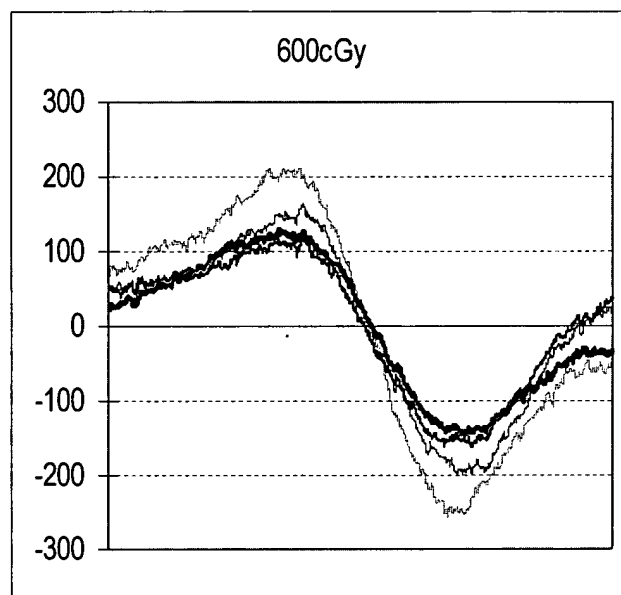
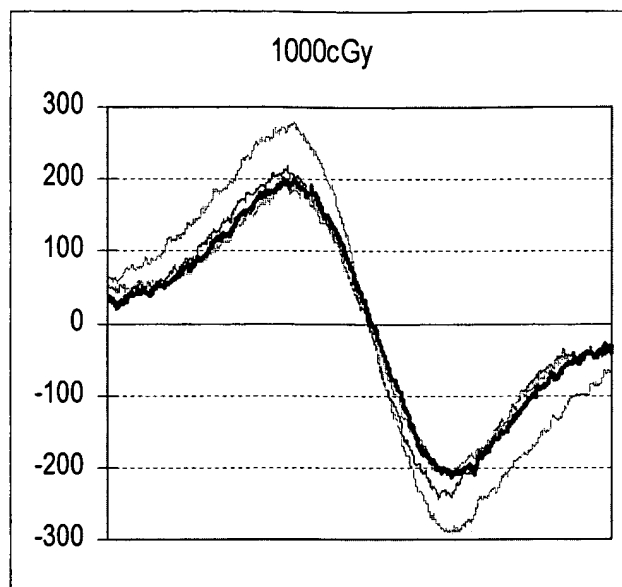


Fig. 24E



CLINICAL BRIDGE
MICROWAVE POWER 0db
MODULATION AMPLITUDE 3.0 Gs
TIME CONSTANT 30ms
SCN RANGE 20Gs
SCAN TIME 10sec.
ACCUMULATION No. 8 SCANS
SAMPLE 3000 cGy IRR. TOOTH

	Signal	Noise	S/N
Extra Oral	2.35	0.147	15.99
Intra Oral	1.47	0.216	6.81

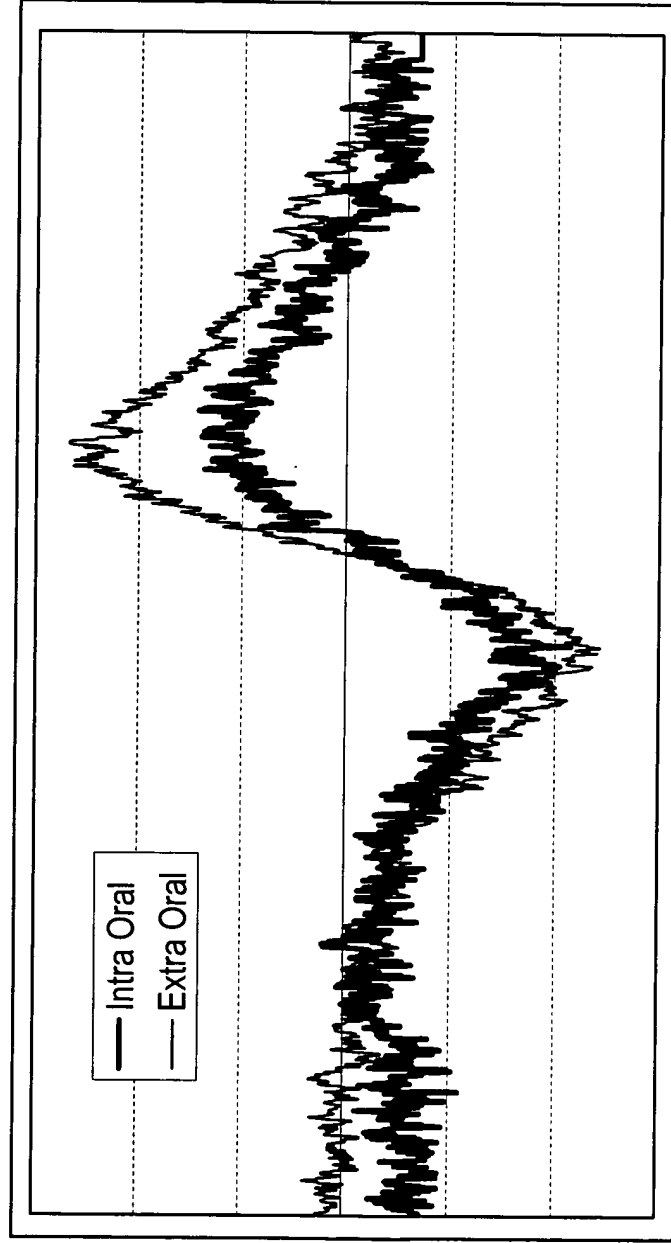


Fig. 25

EPR Spectra of Human Teeth at L-band

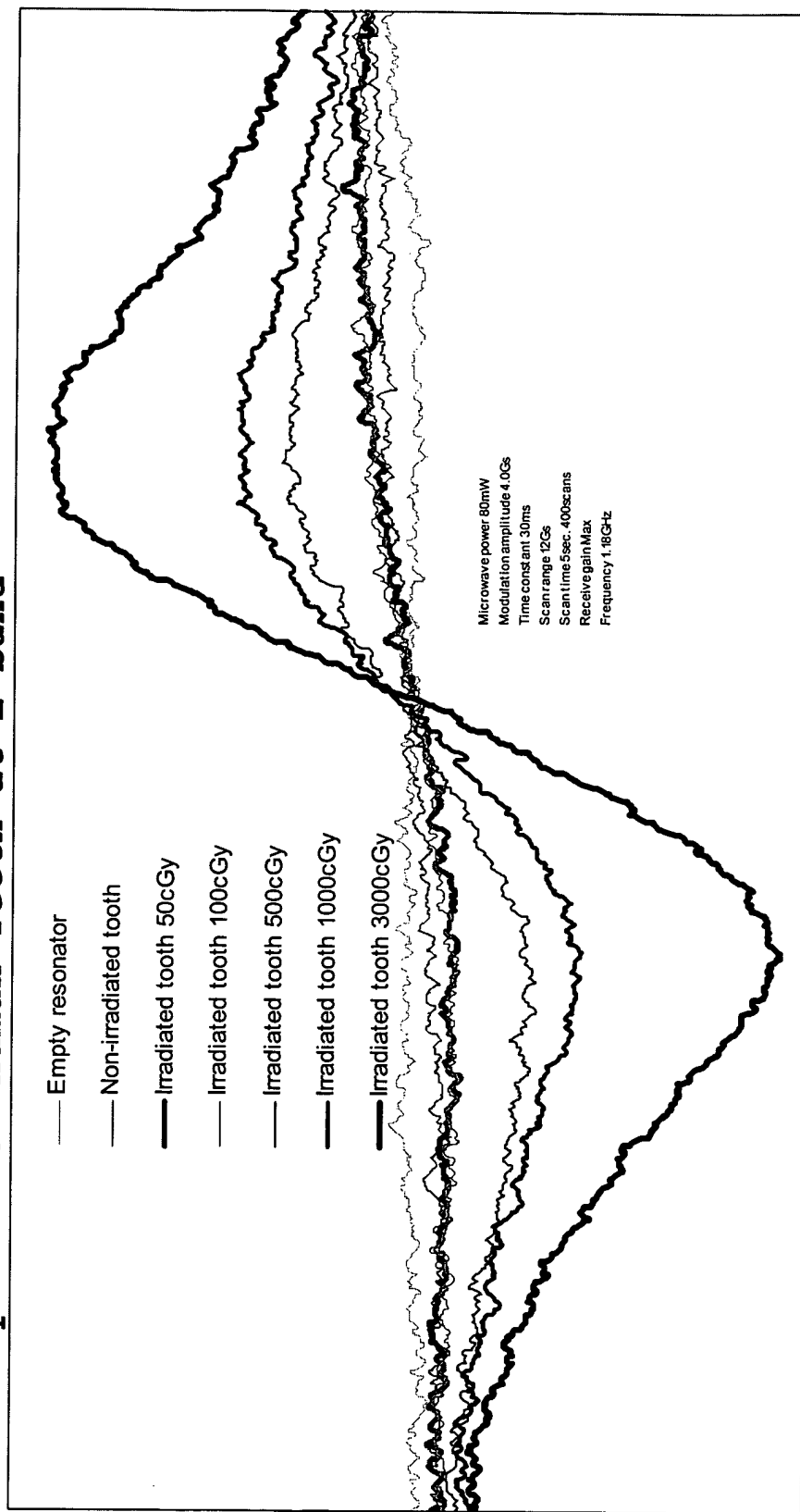


Fig. 26

	BW 1	BW 2	Q-factor 1	Q-factor 2	Q-factor Ave.	SD
OutOral Empty Resonator	1.95	2.1	600.00	557.1	578.57	21.43
Intraoral Left Side (Molar region)	4.6	5.7	254.35	205.3	229.81	24.54
Intraoral Right Side (Molar region)	5.1	8.9	229.41	131.5	180.44	48.98
Intraoral Center	3.4	3.9	344.12	300.0	322.06	22.06
Intraoral Center (Tongue pressed to the loop)	13.7	14.1	85.40	83.0	84.19	1.21

Fig. 27A

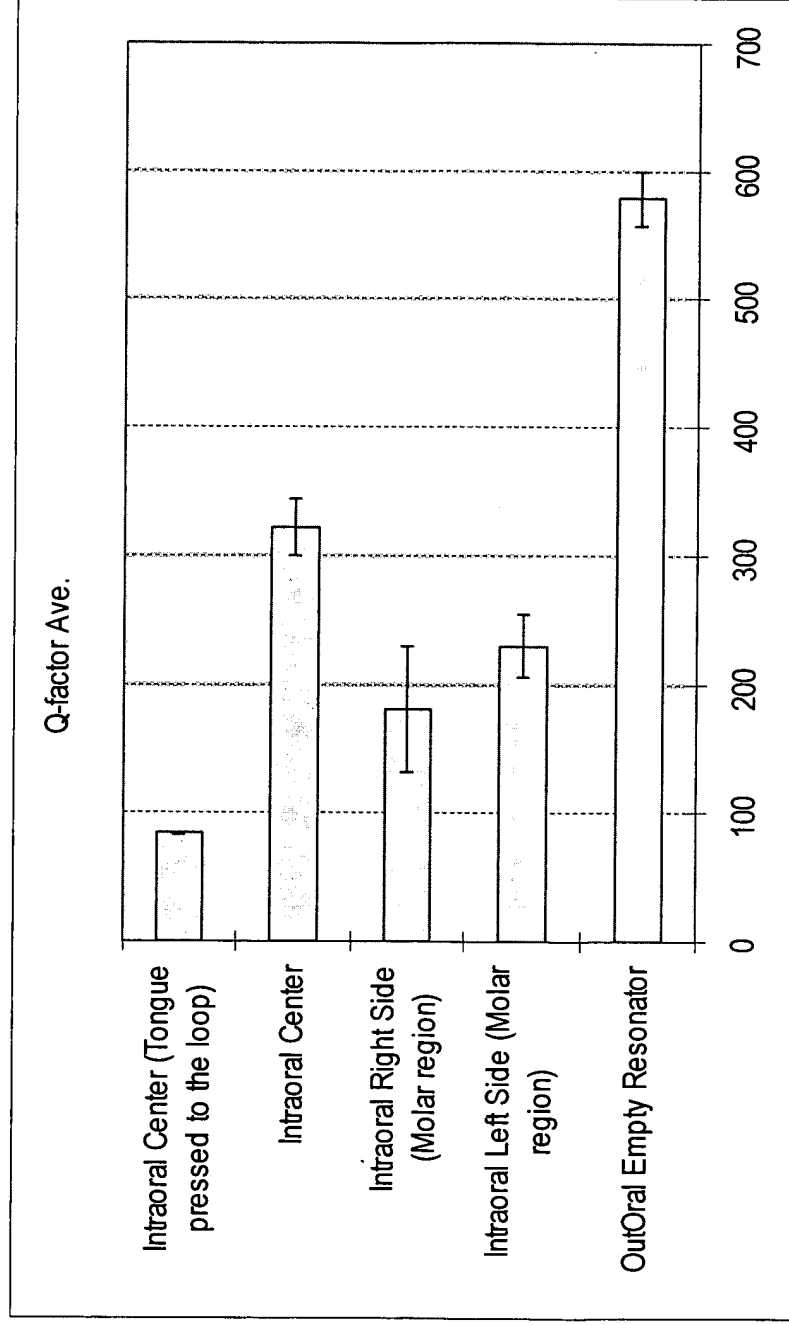


Fig. 27B

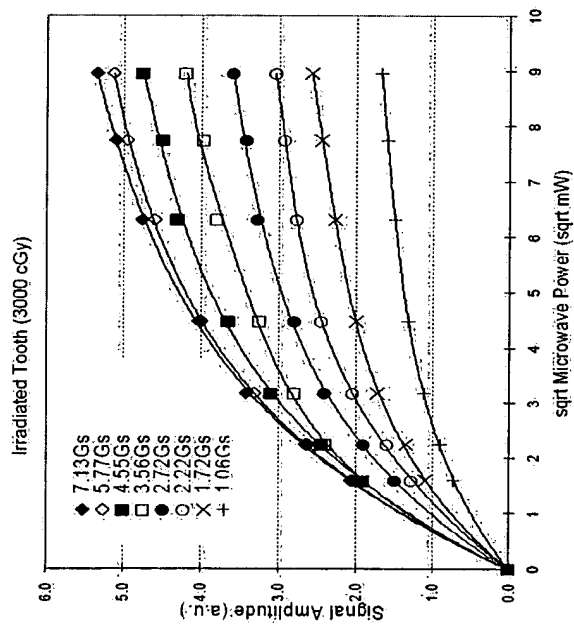


Fig. 28A

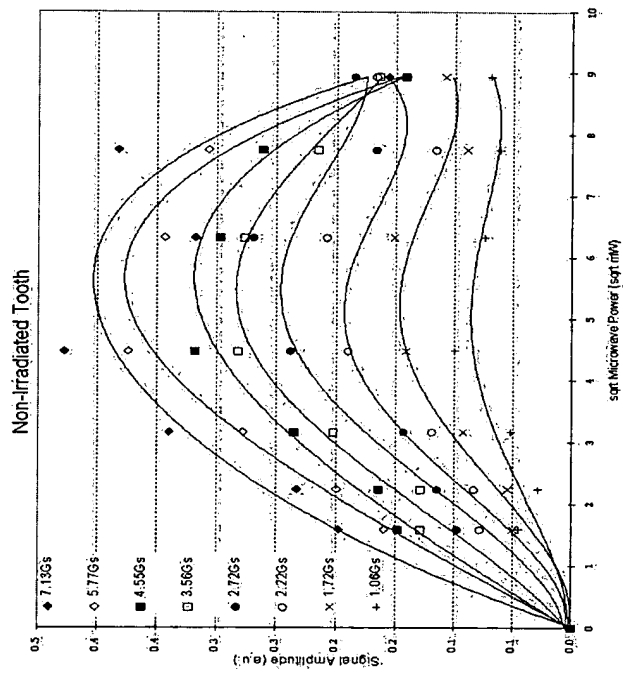


Fig. 28B

NORMALIZED BY TOOTH DIMENSION (a*b)

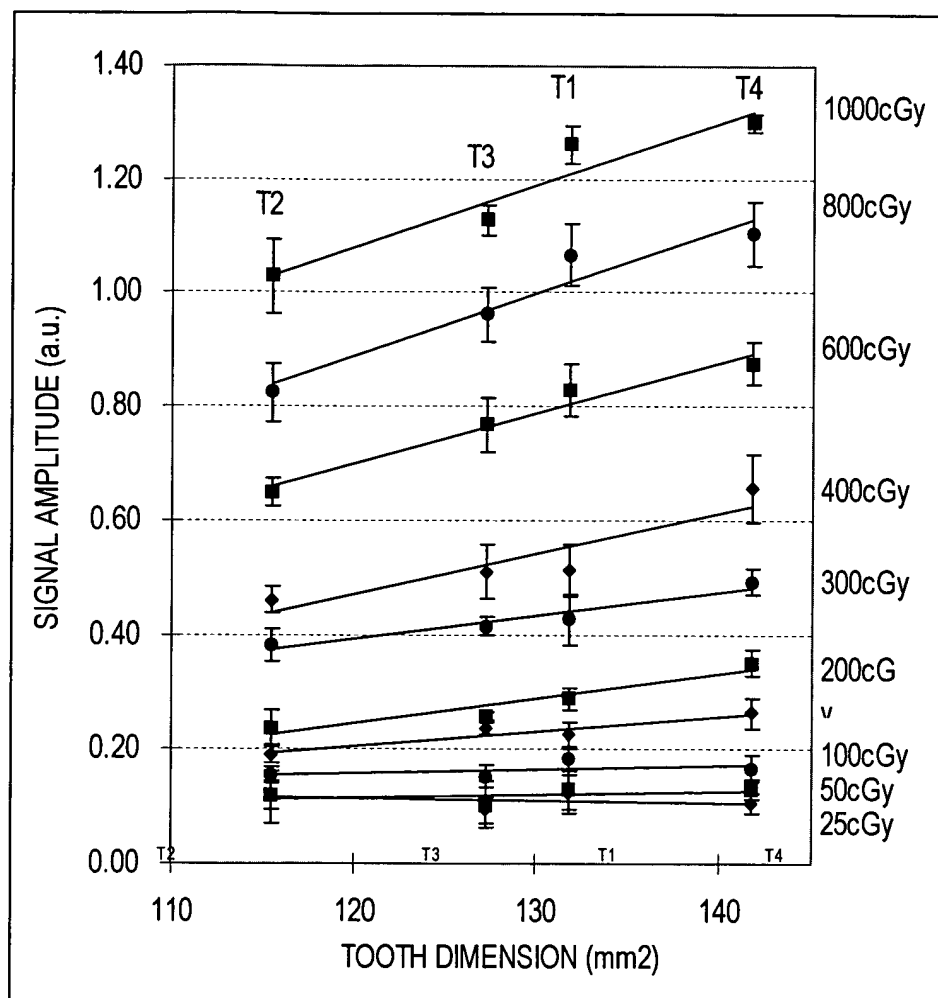


Fig. 29A

NORMALIZED BY TOOTH DIMENSION (a*b)

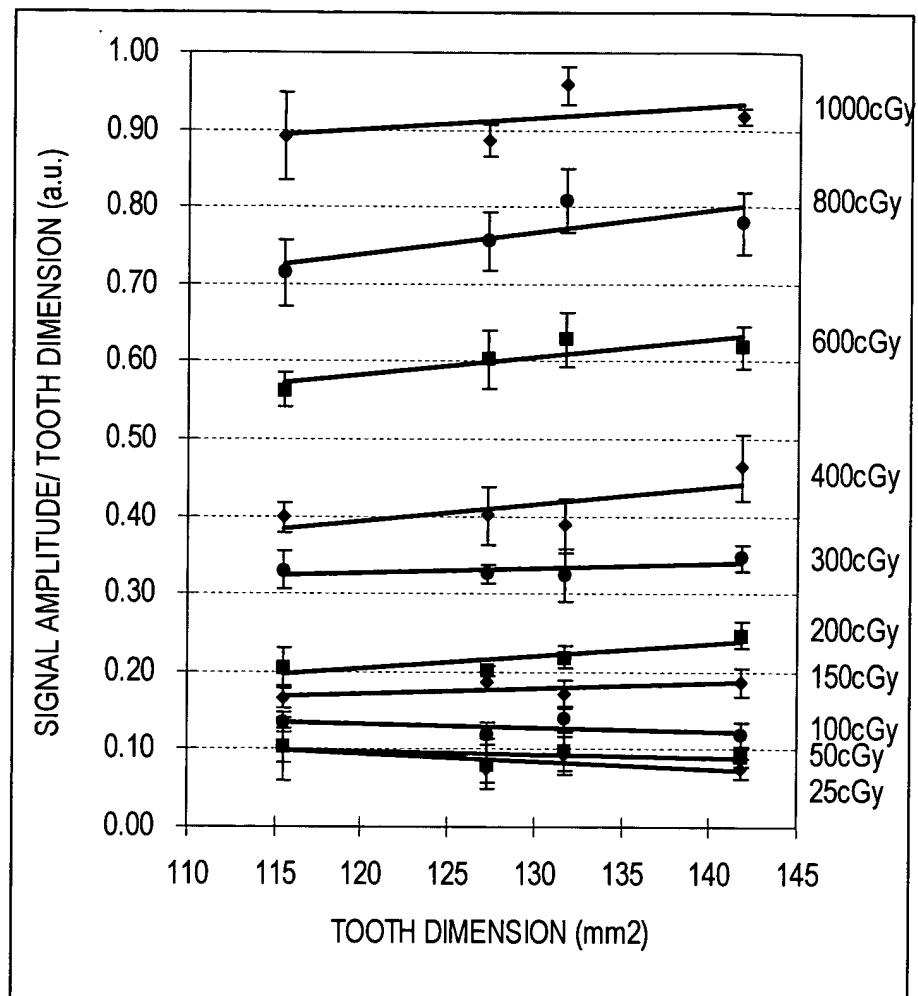


Fig. 29 B

NORMALIZED BY $((a*b)^{6/5})$

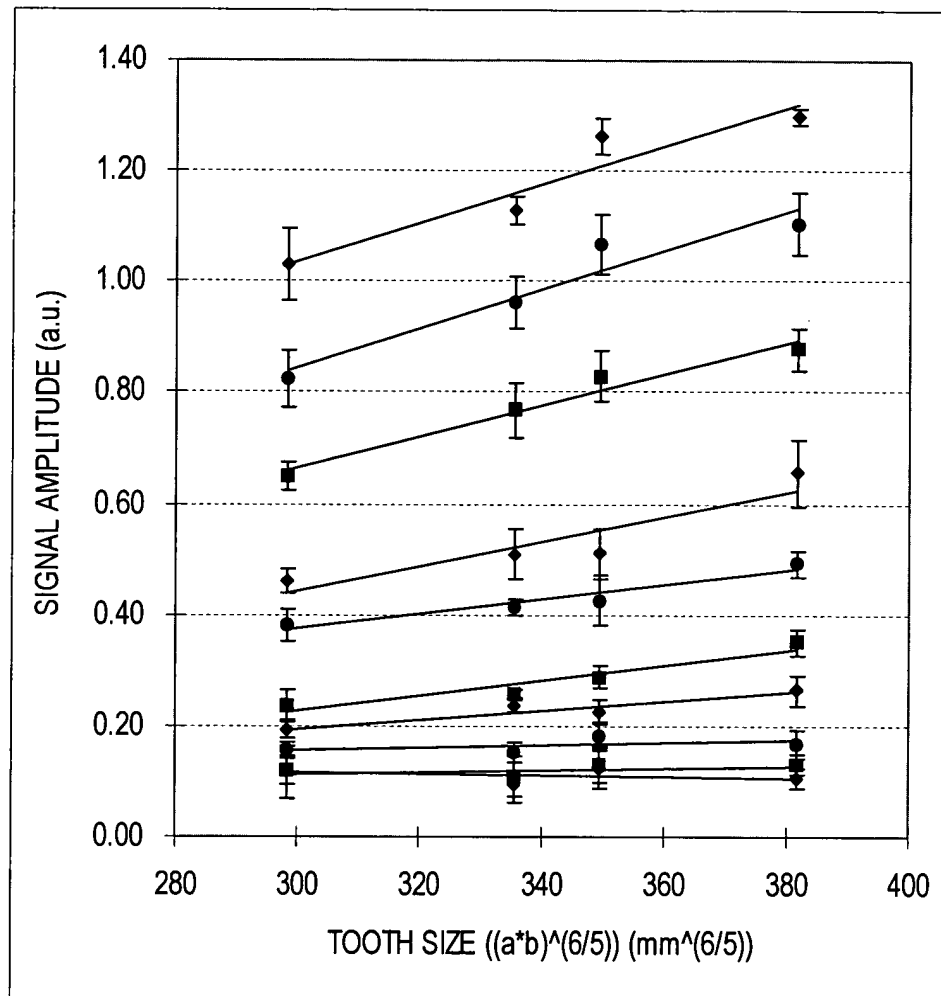


Fig. 29C

NORMALIZED BY $((a*b)^{6/5})$

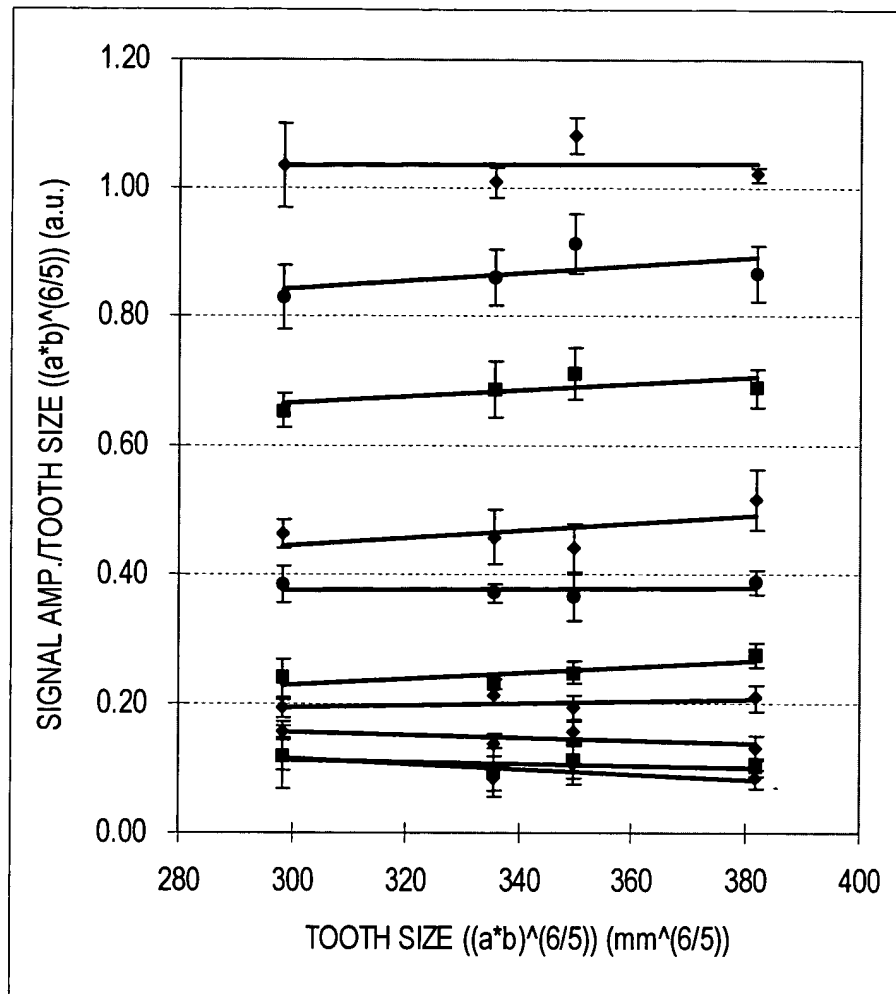


Fig. 29D

EPR Spectra of Human Tooth at L-band

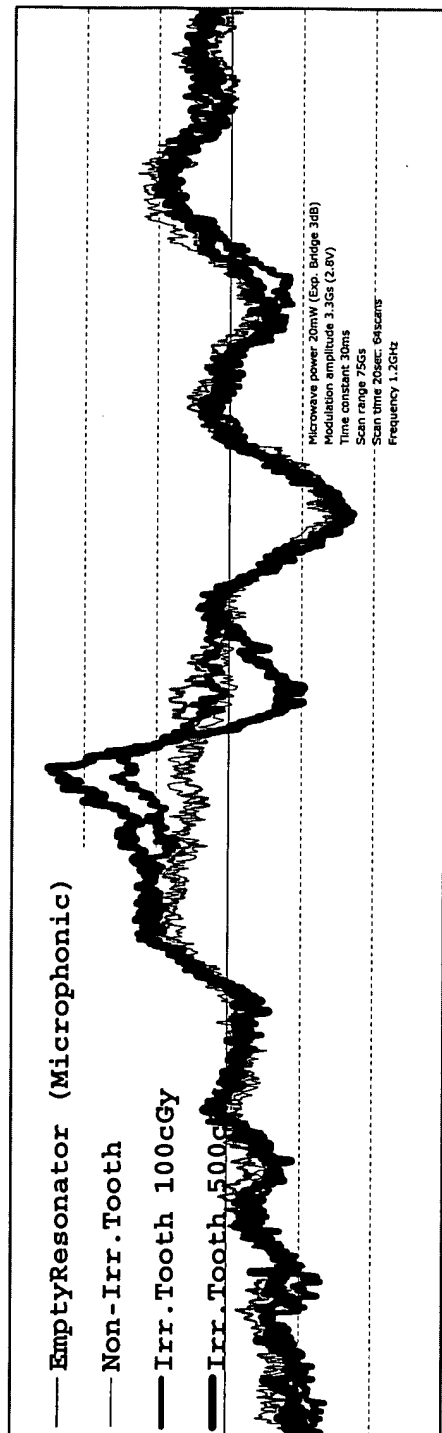


Fig. 30A

EPR Spectra of Human Teeth at L-Band
(After Subtraction)

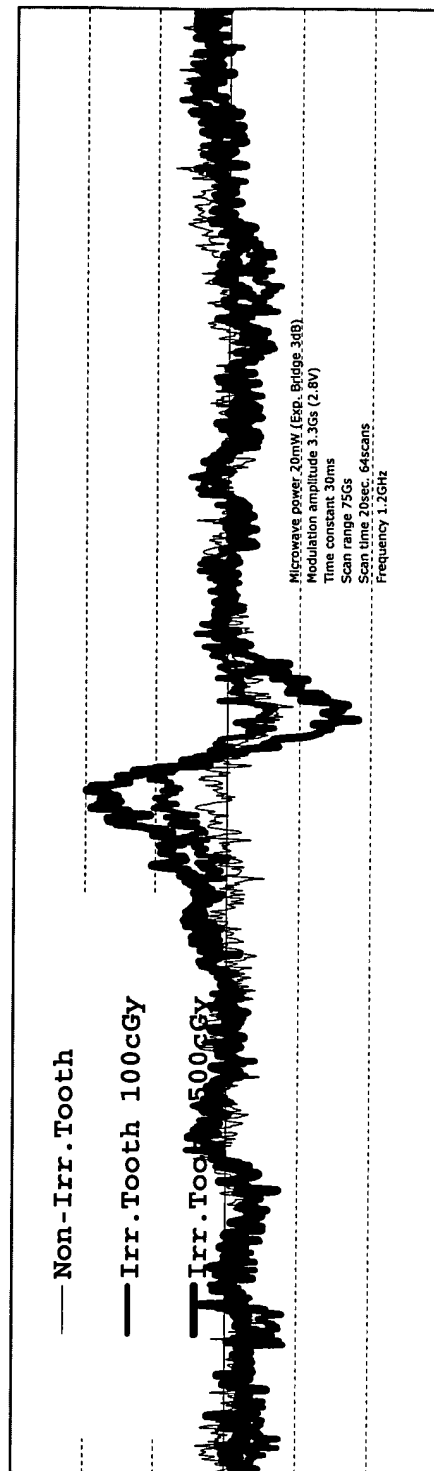


Fig. 30B

Fig. 31A

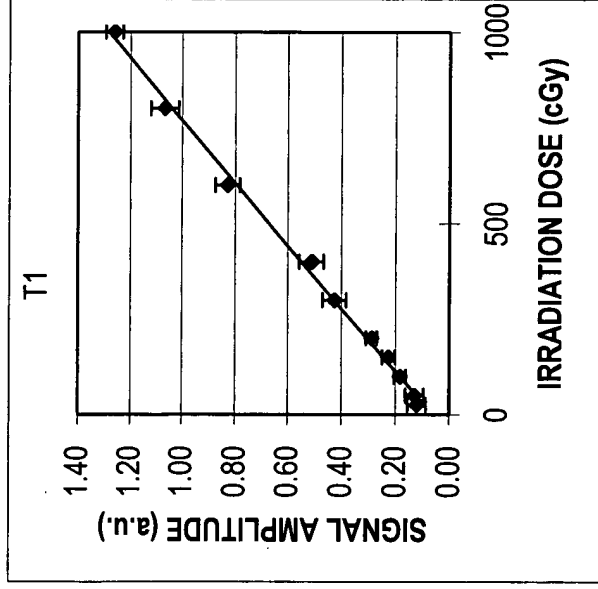


Fig. 31B

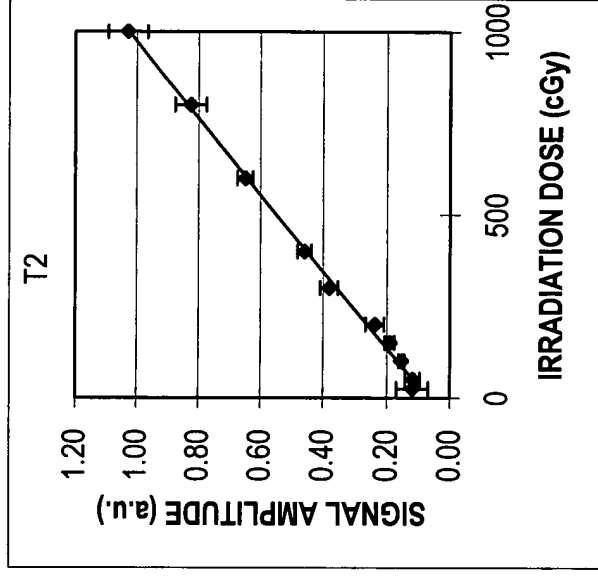


Fig. 31C

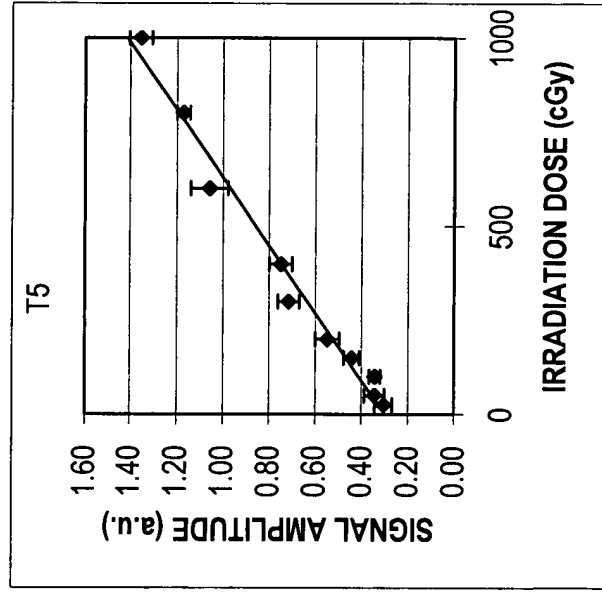


Fig. 31D

